

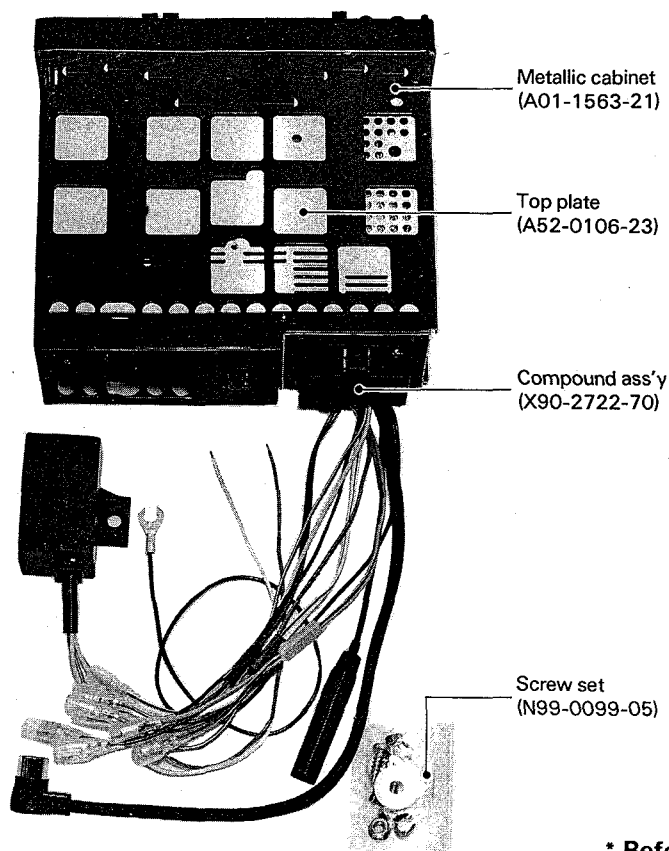
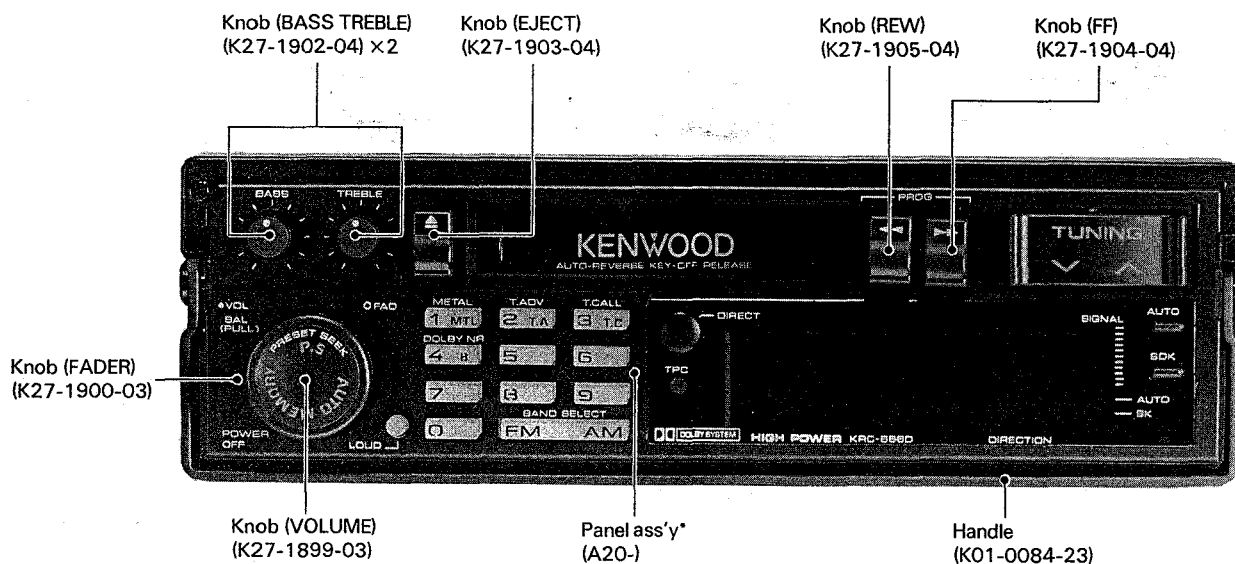
CASSETTE-RECEIVER

# KRC-666D/L

## SERVICE MANUAL

# KENWOOD

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B51-3550-00(B)1490



\* Refer to parts list on page 57.



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## OPERATION

### ■ Frequency display

- For FM, final frequencies 25 kHz, 50 kHz and 75 kHz are represented respectively by **[25]**, **[50]**, and **[75]** on the frequency display.

For example:

92,100 MHz $\Rightarrow$		92,125 MHz $\Rightarrow$	
92,150 MHz $\Rightarrow$		92,175 MHz $\Rightarrow$	

### ■ Automatic lighting illumination

- When the unit is inserted into the detachable case, the illumination around the POWER switch lights up for about 30 seconds, even when the power is set to OFF, to indicate the location.
- When the engine is started with the unit inserted into the detachable case, the illumination around the POWER switch light up for about 30 seconds, even when the power is set to OFF, to indicate the location.

#### CAUTION:

This function lights the illumination by detecting variation in the battery voltage. Therefore, the illumination could light up also when another electrical car accessory is switched ON or OFF.

### ■ This unit generates beeps in the following cases.

Operation	Number of Beeps
When a cassette tape is loaded	Once
When a cassette tape is ejected	Once
When storing into the 10-key memory	Once
When direct tuning is finished	Once
When Auto Memory starts	Once
When a program is stored with Auto Memory function	Once
When Auto Memory finishes	Twice
When Preset Scan finishes	Twice

## DISASSEMBLY FOR REPAIR

1. Remove the 4 screws ❶ and then take off the top cover and bottom cover.
2. Remove the volume knob ❷.
3. Remove the FADER knob ❸.

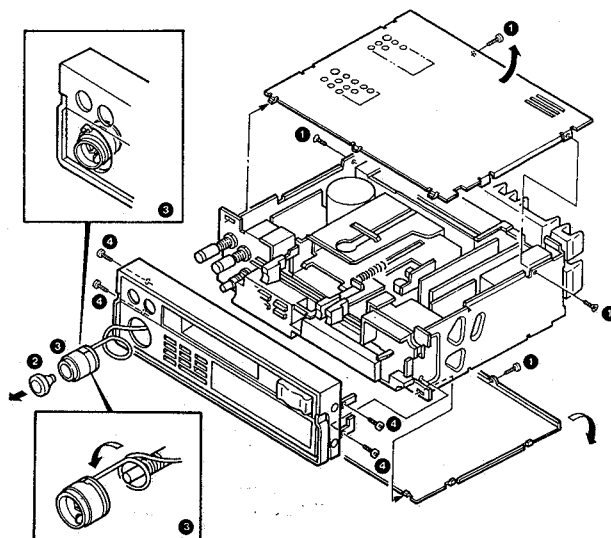
**Note: Be careful not to cut the wires connected to the FADER knob.**

How to attach the FADER knob

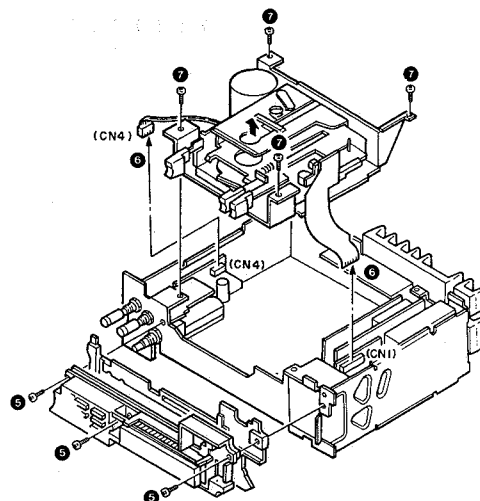
- (1) Align the FADER knob shaft with the center.
- (2) Insert the FADER knob by turning it once counter-clockwise (be sure to insert the knob with the lamp downward).

4. Remove the 4 screws ❹, and then take off the front panel while paying attention to the FADER knob.

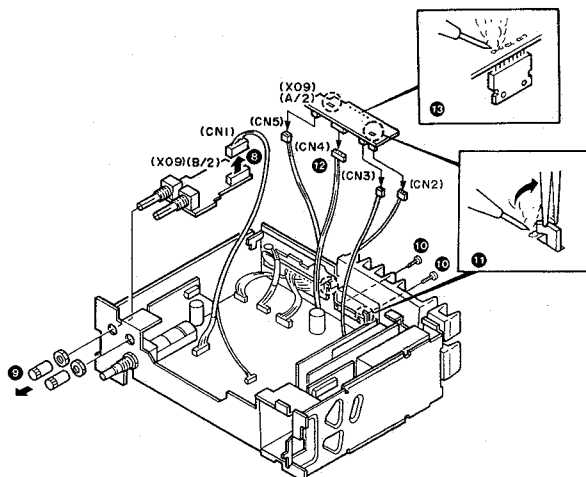
**Note: When attaching the front panel, also attach the FADER knob through the hole provided on the front panel. Also be careful so that the TPC knob on the front panel is not caught when the front panel is attached.**



5. Remove the 3 screws ❺, and then take off the Switch Unit.
6. Disconnect the connector (CN4) and flexible cable from the Mechanism Ass'y ❻.
7. Remove the 4 screws ❼, and then take off the Mechanism Ass'y.



8. Disconnect the connector (CN1) from the Audio Unit (X09-, B/2) ❸.
9. Remove the 2 knobs and 2 nuts ❾, and then take off the Audio Unit.
10. Remove the 2 screws holding the Power IC ❿.
11. Remove the solder from the tongue of the Audio Unit (X09-, A/2), extend the tongue using pliers, and then take off the Audio Unit ⓫.
12. Disconnect the connectors (CN2, CN3, CN4, CN5) from the Audio Unit ⓬.
13. Remove the solder from the Power IC pins, and then take off the Power IC ⓭.

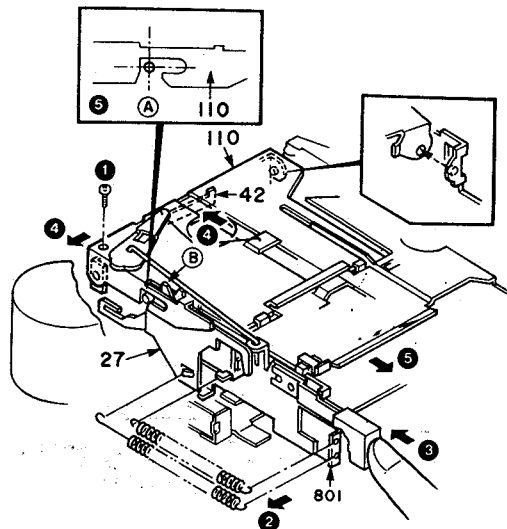




## DISASSEMBLY FOR REPAIR

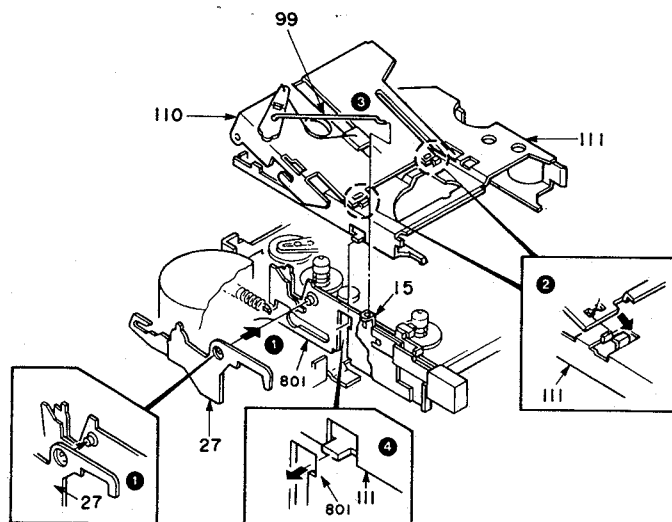
### DISASSEMBLY OF HOLDER (ACTION PLATE)

1. Remove the screw (1) from the holder (action plate [110]).
2. Remove the two springs (2) from mechanism chassis (801).
3. Hold down the EJECT button (3) with one hand.
4. Press the lever (42) with your other hand, move the holder (action plate [110]) toward the motor, and remove the lever (42) from projection (B) of the mechanism chassis (801) (4).
5. Push the holder (action plate [110]) forward. When the projection of the arm (action [27]) reaches point (A), release the EJECT button (5).

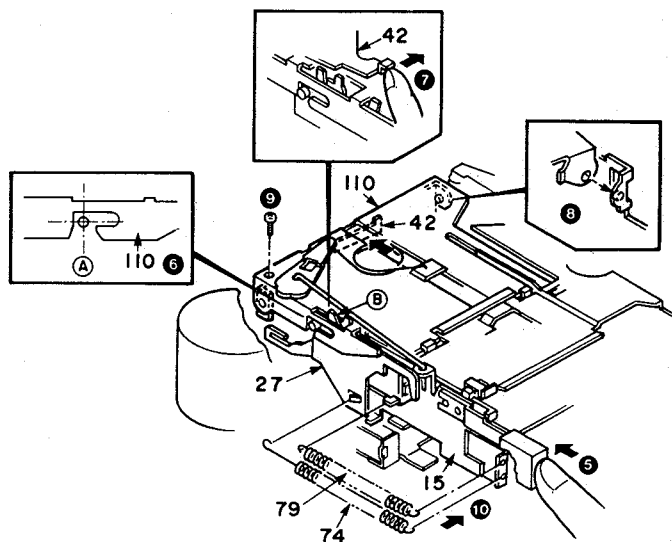


### REASSEMBLY OF HOLDER (ACTION PLATE)

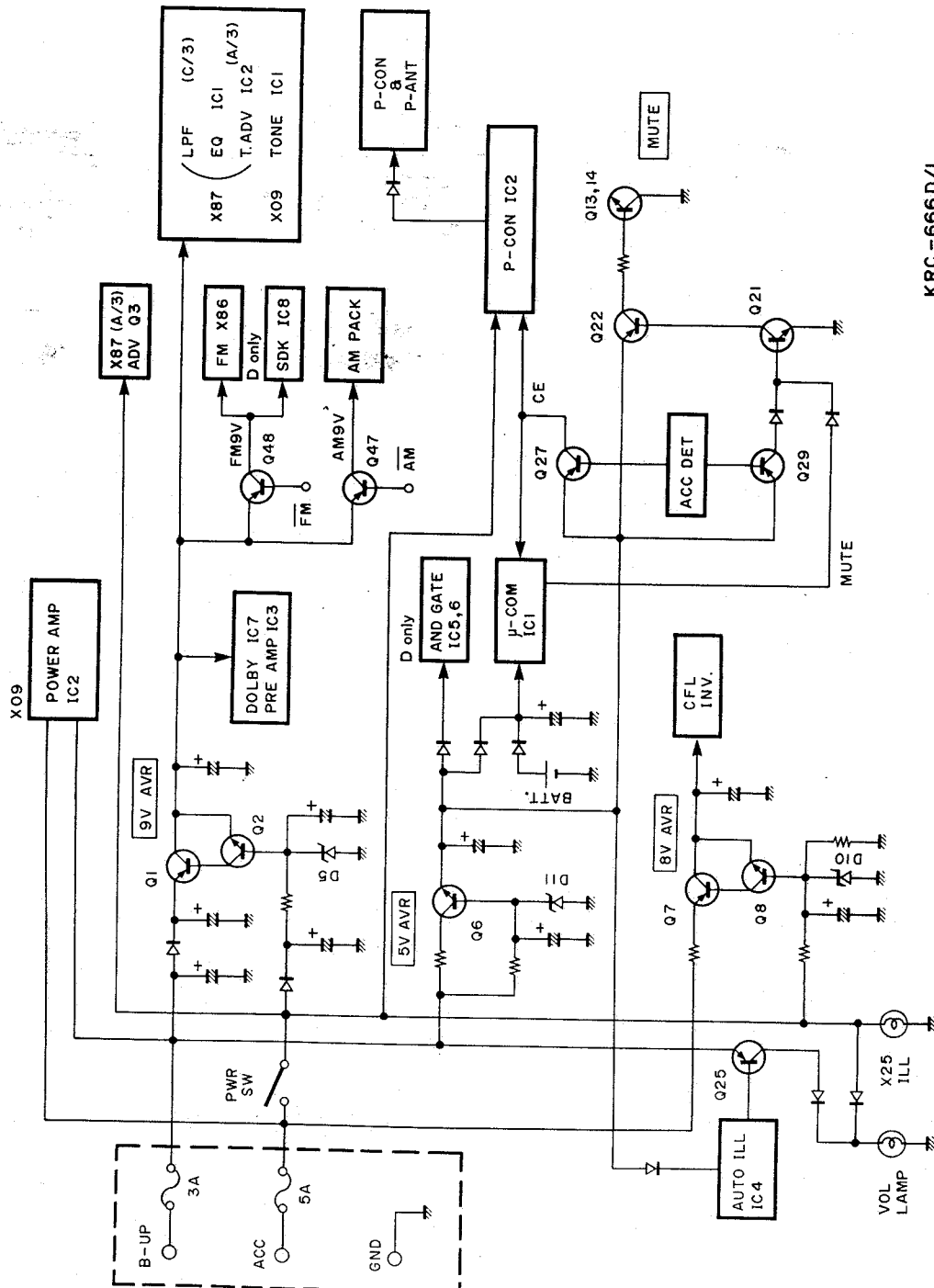
1. Align the projection of the mechanism chassis (801) with the hole in the arm (action [27]) (1).
2. Align the two tips (2) of the holder (action plate [110]) with the claws of the holder (cassette case [111]).
3. Insert the formed wire (99) (3) into the hole of the lever ass'y (EJECT) (15).
4. Align the left claw of the holder (cassette case [111]) with the mechanism chassis (4).



5. While holding the arm (action [27]) with one hand, push the EJECT button (5).
6. Insert the projection of the arm (action [27]) into point (A) in the side of the holder (action plate [110]) (6).
7. Push the lever (42) outward (7) take out the projection of the mechanism chassis (801) from the hole in the holder (action plate [110]). Release the EJECT button.
8. Align the projection (8) of the mechanism chassis (801) with the hole of holder (action plate [110]) with the screw.
9. Secure the holder (action plate [110]) with the screw (9).
10. Mount the tension springs (79) and (74) on the mechanism chassis (801) (10).

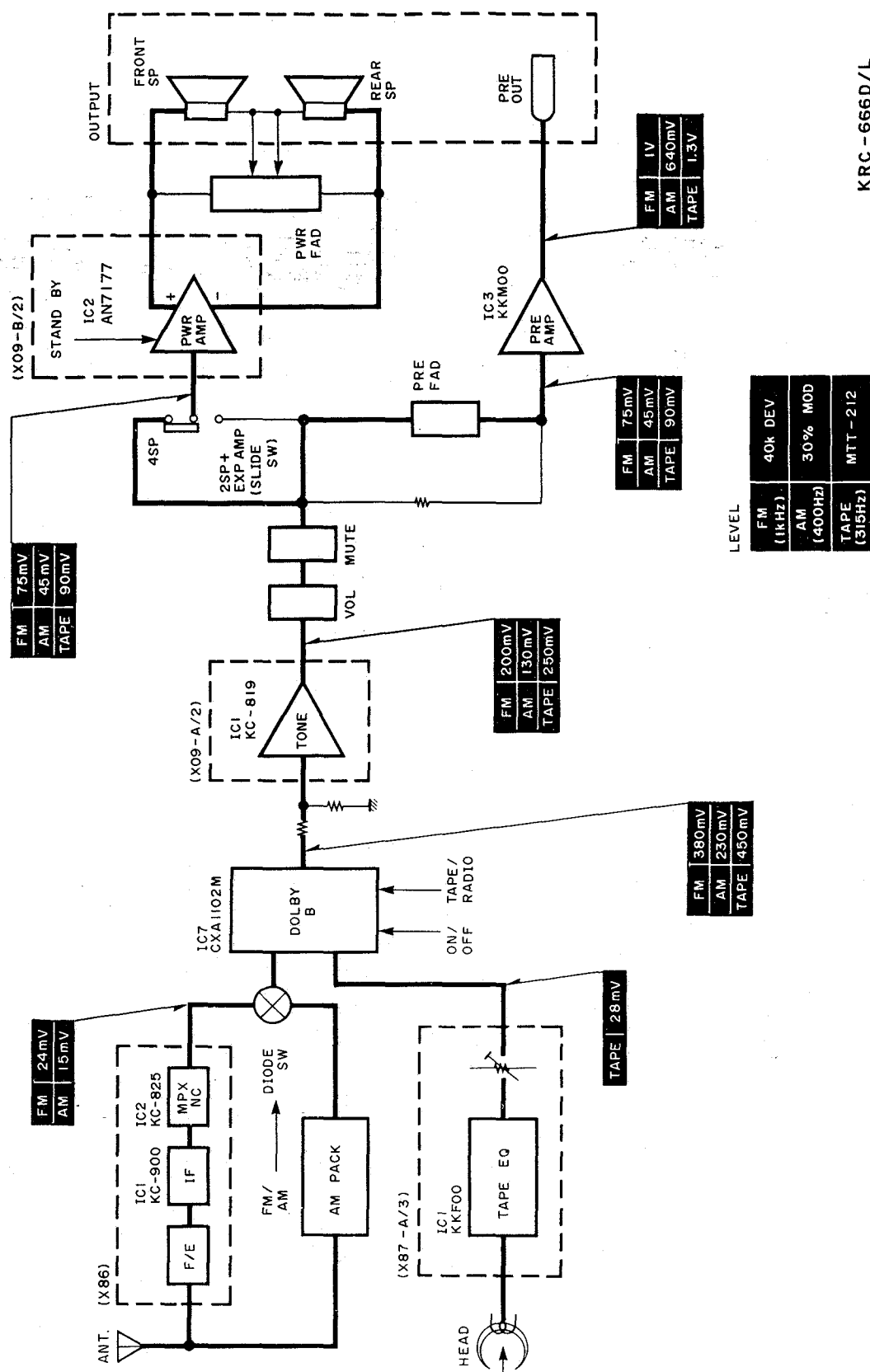


## BLOCK DIAGRAM



KRC-666D/L

## BLOCK LEVEL DIAGRAM



KRC-666D/L

## CIRCUIT DESCRIPTION

## Audio Unit X09-2672-70

Ref. No.	Parts No.	Use and Function	Operation
IC1	KC-819	Tone (Bass, Treble) HIC	Tone controls.
IC2	AN-7177	Power IC	18 W + 18 W (BTL × 2-ch)
Q11	DTC144EK	STAND-BY CONTROL	Turns OFF when the unit is in operation.

## Synthesizer Unit X14-3342-70

Ref. No.	Parts No.	Use and Function	Operation
IC1	μPD1719G-551-11	Master microcomputer	Refer to the attached sheet.
IC2	KKO00	P-Com output protection	Refer to the attached sheet.
IC3	KKM00	DIN amp	Refer to the attached sheet.
IC4	μPD4001BG-T1	Power fluctuation detection + 1 AND circuit	Refer to the attached sheet.
IC5	μPD4081BG-T1	4 AND circuits (exclusively for SDK)	Alternate switch <b>(D only)</b>
IC6	μPD4081BG-T1	4 AND circuits (TAPE, DIR, ST, FF/REW)	Alternate switch
IC7	CXA1102M	Dolby B-type NR decoder	Refer to the attached sheet.
IC8	KKC00	SDK HIC (hi-Cut)	Refer to the attached sheet. <b>(D only)</b>
Q1	2SB1015	9 V (power supply for audio circuit) AVR, Darlington circuit	Outputs 8.5 V constant voltage when power is ON.
Q2	2SC2412K		
Q3	DTC124EK	DK OUT inversion	Outputs low level signal to PRE, OUT DK pin on DK interruption. <b>(D only)</b>
Q4	DTC124EK	RST IN inversion	Inverts RST signal from outside.
Q5	2SA1037K	For power supply fluctuation	Refer to the attached sheet.
Q6	2SD1055F	5 V (for logic circuits) AVR	
Q7	2SB1015	8 V (for CFL INV) AVR, Darlington circuit	Outputs 8.2 V constant voltage when power is ON.
Q8	2SC2412K		
Q9, 10	2SD1757K	DK VOL UP inhibition	Normally ON. Turns OFF to increase volume when DK is engaged. <b>(D only)</b>
Q11, 12	2SD1757K	LOUD ON/OFF	Q11 and 12 are turned OFF when LOUD is ON.
Q13, 14	2SD1757K	MUTE	Turns ON when MUTE is activated.
Q15	DTA124EK	Pack In signal inversion	Outputs high level signal when Pack In is engaged.
Q16	DTA124EK	Tape Mute signal inhibition in Radio mode	In Radio mode, Q16 and 17 are turned OFF to inhibits Tape Mute signal.
Q17	DTC124EK		
Q18	DTC124EK	SD inhibition	Inhibits SD signal when FM MUTE is activated (when detuned, etc.).
Q19	DTC124EK	AGC time constant select switching	Turns OFF when AGC Cut is engaged. Normally turned ON to supply 9 V.
Q20	DTA124EK		
Q21	DTC124EK	MUTE driver	When MUTE is activated, Q21 and 22 are turned ON to drive Mute transistor in 5 V.
Q22	2SA1037K		
Q23	2SA1037K	LOUD driver	Turns ON when LOUD is ON, to drive Q11 and 12.
Q24	DTC124EK	DK VOL UP inversion	Turns ON when DK is ON, to turn Q9 and 10 OFF. <b>(D only)</b>
Q25	2SB822F	Lamp illumination driver on power fluctuation	These turn ON by detecting the power fluctuation, to supply lamp +B power.
Q26	DTC124EK		
Q27	2SB822F	CE (chip enable) output	Normally, both turn ON to output CE (5 V) when power is ON.
Q28	2SC2412K		
Q29	DTA144EK	KEY OFF MUTE output	Outputs high level signal when power switch is OFF or on power failure.
Q30	DTC143TK	Buffer beep tone	Output pulse signal when Beep tone is activated.
Q31	DTA144EK	MUTE output inversion	Outputs pre-out mute signal (high level) when tuning, etc.
Q32	2SC2412K	AM SD switching	
Q33	DTC144WK	FM SD switching	

## CIRCUIT DESCRIPTION

Ref. No.	Parts No.	Use and Function	Operation
Q34	DTC124EK	Dolby ON/OFF	Turns ON to output low level signal when Dolby B-type NR is engaged.
Q35	DTC144EK	MONO/ST select	Turns ON to output low level signal when MONO is ON. <b>(L only)</b>
Q36	DTC644EK	MONO/ST select	Turns ON to supply +B power when ST is ON. <b>(L only)</b>
Q37	DTC144WK	ST indicator switch	Turns OFF to output high level signal when ST is ON.
Q38	2SC2412K	DIRECTION inversion	Turns ON to output low level signal when REV is ON.
Q42	DTC124EK	AGC CUT	Turns ON when AGC CUT is engaged.
Q43	DTA124EK	AGC CUT (AM)	Turns ON when AGC CUT is engaged.
Q44	2SA1037K	SD buffer (AM)	
Q45	DTA124EK	Band select switch	Turns ON to supply 9 V in MW mode.
Q46	DTC124EK	SK output inhibition	Turns ON to inhibit SK output when FM MUTE is engaged. <b>(D only)</b>
Q47	2SB822F	AM +B power supply	Supplies AM +B power in AM mode.
Q48	2SB822F	FM +B power supply	Supplies FM +B power in FM mode.

### Front-end Unit X86-1092-70

Ref. No.	Parts No.	Use and Function	Operation
IC1	KC-900	FM IF amp, DET	Refer to the attached sheet (New Parts).
IC2	KC-825	FM MPX, NC	Decoder, Noise canceller HIC
Q2	2SC2413K	IF amp	IF amplifier
Q3	2SC2412K	Buffer	For high-cut, separator
Q4	2SC2412K	CRSC switching	
Q5	2SA1037K	Buffer	For signal meter output voltage

### Playback Amplifier Unit X87-1232-70

Ref. No.	Parts No.	Use and Function	Operation
IC1	KKF00	Head amp (EQ) HIC	Refer to the attached sheet (New Parts).
IC2	AN6263N	T. ADV. (Tape Advance)	Gap detection, Plunger driver
Q1	DTC144EK	T. ADV. ON/OFF	Turns ON when the "T. ADV." key is activated in FF/REW mode.
Q2	2SC2412K (S)	Plunger driver	Gap detection. Both turn ON to drive plunger in STOP mode.
Q3	2SA1428		
Q4	2SC2412K (S)	Tape Mute signal inversion	Turns OFF to output high level signal in FF, REW, PRG mode.
Q21	2SA1428	Motor +B power supply	Both turn ON to supply Motor +B power (14 V) in Tape (Pack) IN mode.
Q22	2SC2412K (S)		
Q23	DTC144EK	DK, RST release	Stops motor on DK interruption or RST mode.
Q24	DTC144EK	Pack IN	Turns ON to output low level signal in Pack In mode.
Q31	DTC144EK	AM +B switching	Turns ON to output low level signal in MW/LW mode.
Q32	DTC144EK	Band switch	Turns ON to output low level signal in MW mode.
Q33	DTC144EK	FM +B switching	Turns ON to output low level signal in FM mode.
Q34	DTC144EK	FM & MW LPF inhibition	Turns ON to inhibit FM & MW LPF output in LW mode.
Q35	2SC2412K (S)	LPF (low pass filter)	Consists MW & FM LPF (low pass filter)
Q36	2SC2412K (S)		
Q37	DTC144EK	LW LPF inhibition	Turns ON to inhibit LW LPF output in FM, LW mode.
Q38	2SC2412K (S)	LPF (low pass filter)	Consists LW LPF (low pass filter)
Q39	2SC2412K (S)		

# CIRCUIT DESCRIPTION

## Automatic Illumination Circuit

### 1. Function

Even when the power switch is turned OFF, starting the engine or inserting the detaching/attaching set into the detaching/attaching case lights up the illumination of the power switch section.

### 2. Operation

#### a. When the engine is started:

When the engine is started, the battery voltage is lower to 2—3 V generally.

- \* Backup voltage VBU
- \* C10 charge voltage Va
- \* Q5 VBE
- \* D7 Vf
- \* Q5 base current Ib
- \* R9 Rs ohms

In here,

$$Va - VBU > VBE + Vf + Ib \times Rs \quad (1)$$

If equation (1) is satisfied, Q5 turns ON and the high level signal is generated by R10 and C12.

This pulse is applied to the mono-stable multivibrator, and the high level signal is output for the period set by C30 and R56 to turn ON Q26 and Q25 so that the lamp lights up for a fixed period.

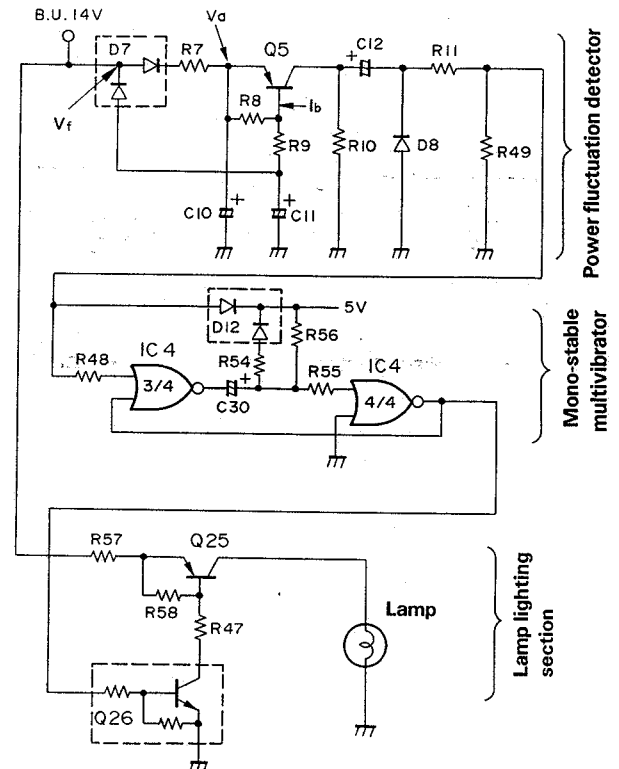
#### b. When detaching/attaching set is inserted:

When VBU is applied, Q5 is turned ON while C11 is being charged by the time constant of R9 and C11. As a result, the pulse is generated to light up the lamp in the same way as a.

### 3. Cautions

With the characteristics of this circuit, when the backup voltage is dropped by turning on the wiper or

other electrical equipment such as light or air-conditioner, if equation (1) is satisfied, lamp may be lit mistakenly even when the engine is not started.



## KEY-ON, KEY-OFF, Power Failure Mute

### 1. Object

This is the MUTE signal generator circuit, which activate muting function for a fixed period when the power is turned ON (ACC or POWER switch), and activates muting function instantly when the power is turned OFF (ACC or POWER switch).

### 2. Operation

(1)  $V_1 = V+B - VD1$  (same amount as Zener effect)

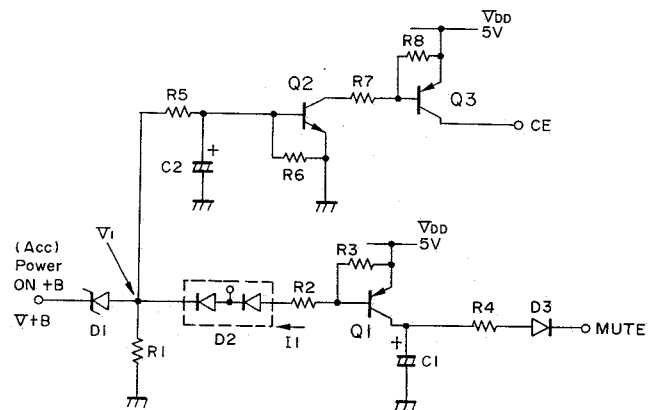
$$\dots\dots\dots (1) (VDD: 5 \text{ V for backup})$$

$$V_1 + VD2 + I1 \cdot R2 < VDD - VBE \quad (2)$$

When the above equations are satisfied, Q1 is turned ON to output the MUTE signal via D3.

That is;

- \* When the power is OFF:  
Q1 turns ON, and MUTE signal is output continuously.
- \* When the power is ON (rising up):  
Q1 immediately turns OFF, however, MUTE signal is still output for the period as time constant of C1 and R4.
- \* When the power is OFF (falling down):  
Equation (2) is satisfied, and MUTE signal is output immediately.



- \* On power failure:  
MUTE signal is output when V+B (about 8 V) satisfying equation (2).
- \* The same operation will be performed on momentary power failure.

#### (2) Relationship with CE (chip enable)

- \* When the voltage (V+B) is lowered, CE is cut off after the MUTE signal has been output. (When the voltage is raised, MUTE is released after CE signal goes high.)
- \* For timing, CE is cut off when the fixed period has elapsed after MUTE has been output by the time constant of R5 and C2.

## CIRCUIT DESCRIPTION

## 2. Microprocessor $\mu$ PD1719G-551 (X14-3342-70: IC1)

The  $\mu$ PD1719G-551 includes the prescaler which operates up to 150 MHz, PLL frequency synthesizer and LCD driver, developed for the FM/MW/LW radio to be used in U.S., Europe, Middle East and Japan.

### 2-1. Features

- (1) 4-bit microcomputer for digital tuning
- (2) Prescaler (two modulus prescaler: 150 MHz max.) and PLL circuits incorporated
- (3) LCD driver (1/2 duty, 1/2 bias, frame frequency: 100 Hz, 56 segment max.)
- (4) 5 V  $\pm$  10% single power supply
- (5) Low power consumption CMOS
- (6) Easy to backup data memory (RAM) (with CE pin)
- (7) FM1/FM2/MW/LW 4-band tuner (by initial set diode switch)

- (8) Auto/manual up/down tuning possible (sawtooth wavesweeping)
- (9) Preset memory of up to 10 stations for each band (10 stations for MW + LW combination) (by initial set diode switch)
- (10) Preset scanning, auto memory function
- (11) Direct station select (by initial set diode)
- (12) Compatible with SDK (by initial set diode)
- (13) Accommodate to optional output for radio, such as NR, Load and OP
- (14) Tuner call possible
- (15) Accommodate to optional output for tape such as NR, Load, Metal and Dolby-B/C type, T. ADV.
- (16) Accommodate to clock function (by initial set diode switch)

### 2-2. Outline of Functions

#### (a) Band plan

Area	Receiving Band	Receiving Frequency Range	Channel Spacing		Reference Frequency	Intermediate Frequency	Local
			Auto	Manual			
U.S.A.	FM	87.9 ~ 107.9 MHz	200 kHz	←	25 kHz	10.7 MHz	Upper
	MW	530 ~ 1620 kHz	10 kHz	←	10 kHz	450 kHz	Upper
Europe	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	←	9 kHz	450 kHz	Upper
	LW	153 ~ 281 kHz	9 kHz	1 kHz	1 kHz	450 kHz	Upper
Middle East	FM	87.5 ~ 108.0 MHz	50 kHz	25 kHz	25 kHz	10.7 MHz	Upper
	MW	531 ~ 1611 kHz	9 kHz	←	9 kHz	450 kHz	Upper
Japan	FM	76.1 ~ 89.9 MHz	100 kHz	←	25 kHz	10.7 MHz	Lower
	MW	522 ~ 1629 kHz	9 kHz	←	9 kHz	450 kHz	Upper

#### (b) Initial Setting

##### (1) Preset memory initialization:

Area	Receiving Band	1	2	3	4	5	6	7	8	9	0
U.S.A.	FM	87.9 MHz	←	←	←	←	←	←	←	←	←
	MW	530 kHz	←	←	←	←	←	←	←	←	←
Europe	FM	87.5 MHz	←	←	←	←	←	←	←	←	←
	MW	531 kHz	←	←	←	←	←	←	←	←	←
	LW		←	←	←	←	←	←	←	←	←
Middle East	FM	87.5 MHz	←	←	←	←	←	←	←	←	←
	MW	531 kHz	←	←	←	←	←	←	←	←	←
Japan	FM	76.1 MHz	←	←	←	←	←	←	←	←	←
	MW	522 kHz	←	←	←	←	←	←	←	←	←

\* The lowest frequency is initially stored for all preset memories as shown in the table above.  
But no frequency is stored in memory for LW band

in Europe version.

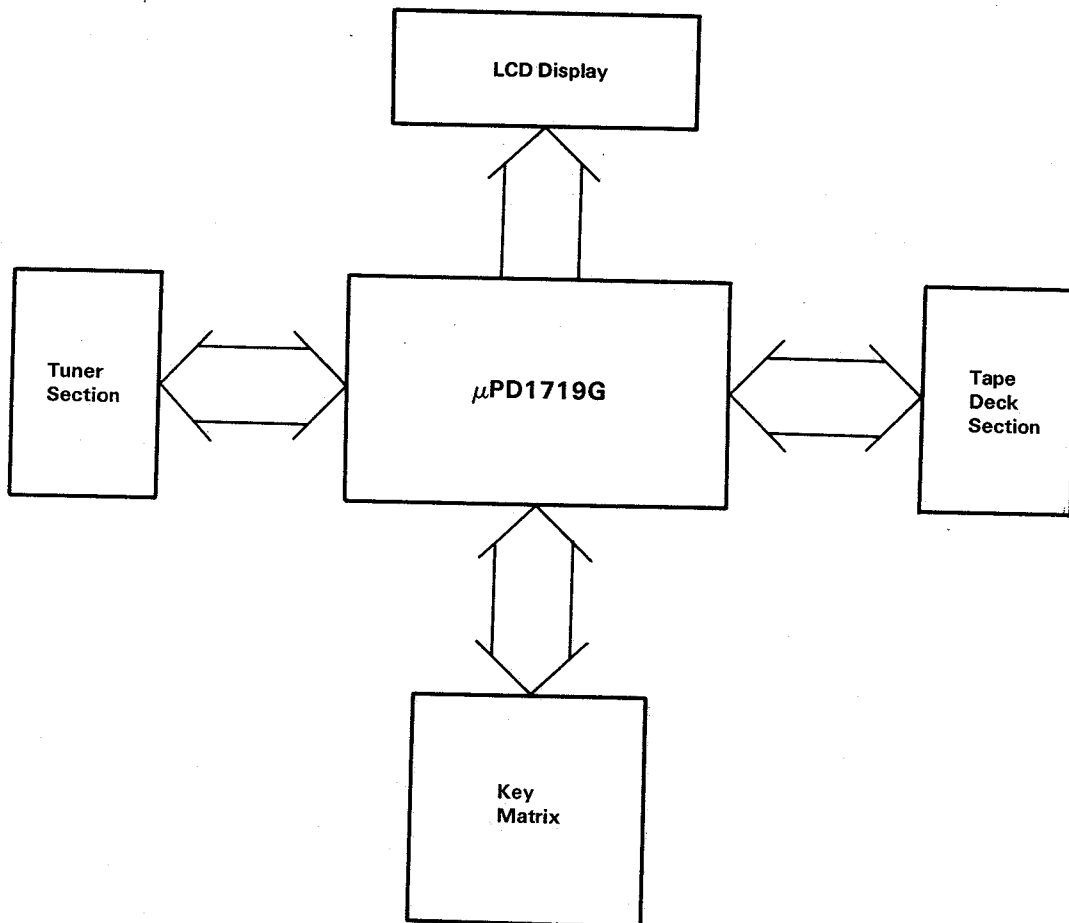
\* Also for FM2 band, the lowest frequency is stored in memory for all preset memories.

## CIRCUIT DESCRIPTION

## (2) Other initialization:

Frequency	Lowest Frequency	op	off	MTL	off
Channel Indication	Blank	NR	Off (for both Radio and Tape)	T-ADV	off
Receiving Band	FM (FM1)	SDK	off	T-call	off
Power	off	Auto	By diode switch	Clock	12:00
Loudress	on	Dolby	Off (for both B and C)		

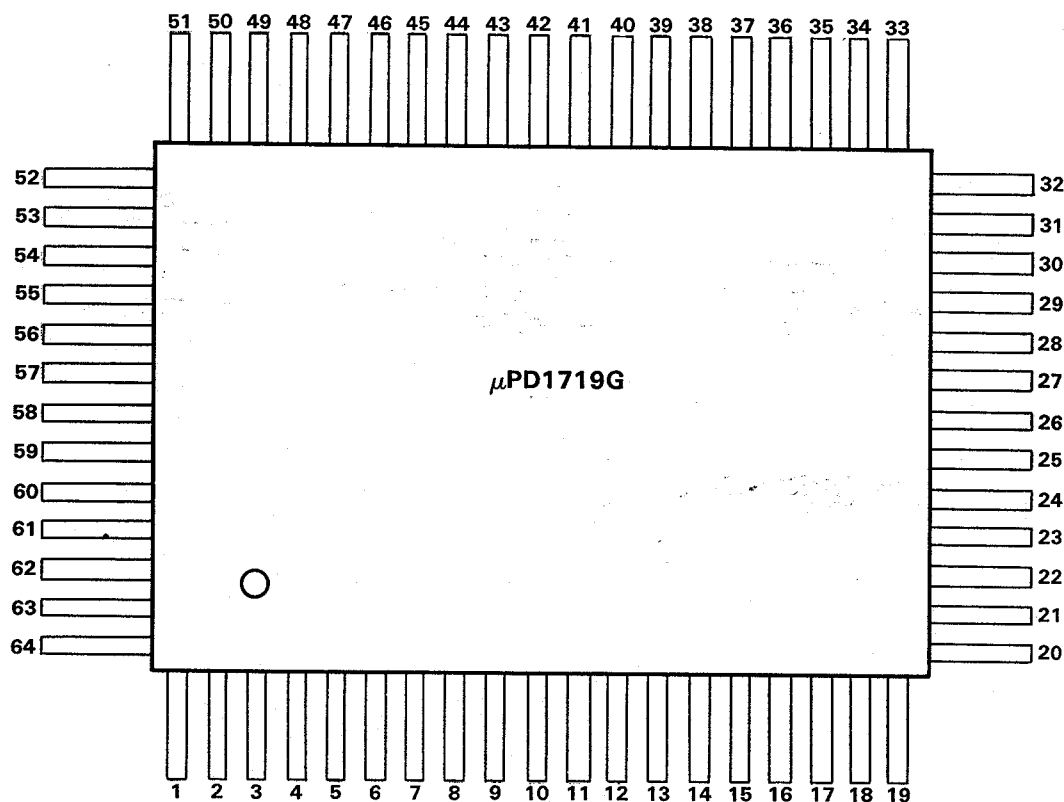
## 3-1. Block Diagram





## CIRCUIT DESCRIPTION

(a) Pin Connection Diagram (Top View)



Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name
1	NC	17	PA1/FMIF	33	LCD22	49	LCD6/KS6
2	E01	18	PA2/SI	34	LCD21	50	LCD5/KS5
3	E02	19	PA3/ $\overline{\text{SCK}}$	35	LCD20	51	LCD4/KS4
4	GND	20	PBO/SO	36	LCD19	52	LCD3/KS3
5	VCOL (AM)	21	PB1	37	LCD18	53	LCD2/KS2
6	VCOH (FM)	22	PB2	38	LCD17	54	LCD1/KS1
7	CE	23	PB3	39	LCD16	55	LCD0/KS0
8	GND	24	XO	40	LCD15/KS15	56	COM1
9	PD1	25	XI	41	LCD14/KS14	57	COM2
10	PD2	26	VDD	42	LCD13/KS13	58	VDD*
11	PD3	27	CGP	43	LCD12/KS12	59	K3
12	PC0	28	LCD27/PL3	44	LCD11/KS11	60	K2
13	PC1	29	LCD26/PL2	45	LCD10/KS10	61	K1
14	PC2	30	LCD25/PL1	46	LCD9/KS9	62	K0
15	PC3	31	LCD24/PL0	47	LCD8/KS8	63	AD
16	PA0/AMIF	32	LCD23	48	LCD7/KS7	64	INT

(\* Internally connected to pin 26)  
(NC: No Connection)

## CIRCUIT DESCRIPTION

## (b) Pin Description

Pin No.	Symbol	Pin Name	Functions	Remarks
1	NC	No. Connection	Although this pin is not connected to the internal chip, it can be used for connection of Open, GND or V <sub>DD</sub> , etc.	
2 3	EO <sub>1</sub> EO <sub>2</sub>	Error Outputs	Error output pin for PLL. When the divided local oscillator frequency is higher than the reference frequency, high level signal is output, and when it is lower than the reference frequency, low level signal is output. When they match with each other, they are floated. This output signal is applied to the external low pass filter (LPF), then applied to the varactor diode. Since the same waveforms are output from EO1 and EO2, either of these pins can be used.	Three-state CMOS
4, 8	V <sub>DD</sub>	Power Supply	Power supply pin for device. This supplies 5 V $\pm$ 10% voltage when the device is in operation. To maintain the internal data memory (RAM) (when the clock stops), the voltage can be lowered to 2.5 V.	
5	AM	AM Local Oscillation Signal Input	Inputs the local oscillator output from 0.6 to 15 MHz (0.3 V <sub>p-p</sub> min). This pin operates when the direct dividing system is selected. Since the AC amp is incorporated, it is necessary to cut.	Input
6	FM	FM Local Oscillation Signal Input	Inputs the local oscillator output from 15 to 150 MHz (0.5 V <sub>p-p</sub> min). This pin operates when the pulse swallow system is selected. Since the AC amp is incorporated, it is necessary to cut the AC current before input.	Input
7	CE	Chip Enable	Device signal input pin. When operating the device normally, this pin is turned to high. When the device is not used, it is turned to low. While this pin is low level, PLL is inhibited. However, the signal less than 134 $\mu$ s cannot be accepted. While the clock is not used, when this pin is turned to low, the internal clock generator and CPU stop operation so that the memory is maintained with low-power consumption status (less than 10 $\mu$ A). When the CE pin is turned high from low, the device is reset and the program restarts from the address 0.	Input
9 ~ 11	PD3 ~ PD1	Port D	3-bit output port. For use in this specifications, refer to the item 3-2 (c) I/O port.	CMOS push-pull
12 ~ 15	PC3 ~ PC0	Port C	4-bit I/O port. When the output command is executed for port C, this port functions as output port, and when the input command is executed, it functions as input port. For use in this specifications, refer to the item 3-2 (c) I/O port.	CMOS push-pull
16 17 18 19	PA0 (AM-IF) PA1 (FM-IF) PA2 (SI) PA3 (SCK)	Port A	4-bit I/O port. Input/output function can be specified for each bit to this port. These ports can be used as serial interface. At this time, PA3 pin operates as SCK (shift clock) pin, and PA2 pin operates as SI (serial input) pin. When PA3 pin is used as SCK, it is necessary to pull-up PA3 pin using resistor. And PA0, PA1 pins function as the frequency measurement pins. PA0 operates as AM-IF while PA1 operates as FM-IF. The higher limit input frequency is 1 MHz for AM-IF pin, and 12 MHz for FM-IF pin. When the AM-IF pin is selected, the input signal is applied directly to the IF counter. However, when the FM-IF pin is selected, the input signal is applied to the 1/2 divider before inputting to the IF counter. When the reset signal is applied to the device (V <sub>DD</sub> goes high from low, or CE goes high from low), or when the internal clock is stopped, the input mode is engaged. For use in this specifications, refer to item 3-2 (c) I/O port.	CMOS push-pull
20 ~ 23	PB3 (SO) ~ PB0	Port B	4-bit output port. PB0 pin can be used as SO (serial output) pin for serial interfacing. For use in this specifications, refer to item 3-2 (c) I/O port.	CMOS push-pull
24	XO		Crystal oscillator connect pin. Connect the crystal having 4.5 MHz oscillating frequency to these pins. When adjusting the oscillating frequency (4.5 MHz), perform while observing XO pin output.	CMOS input
25	XI			
26, 58	GND	Ground	Ground (GND) pin for device.	

## CIRCUIT DESCRIPTION

Pin No.	Symbol	Pin Name	Functions	Remarks
27	CGP	Clock Generator Port	CGP (Clock Generator Port), or 1-bit output port (PG2). When this pin is used as CGP, either of two modes can be selected depending on the program between VDP (Variable Duty Pulse) function with which the 2.69 kHz pulses are output continuously and the pulse can be varied in 64 steps, and SG (Signal Generator) function with which 180 kHz and 18 kHz reference frequencies are divided into 64 steps (50% duty) are output respectively. When the reset signal is applied to the device (V <sub>DD</sub> goes high from low, or CE goes high from low), or when the internal clock is stopped, the CGP pin goes low.	CMOS push-pull
28 ~ 55	LCD27 ~ LCD0	LCD Segment Outputs	Segment signal output pins for LCD panel. Up to 56 dots indications can be displayed by the matrix of COM1 and COM2. When these pins are not used as LCD segment signal output pins, pins from LCD27/PL3 to LCD24/PL0 can be used as 4-bit output port. For use in this specifications, refer to item 3-2 (c) I/O port. The display data and the key source signals are output from the LCD15/KS15 to LCD0/KS0 pins in time division system. When the power is turned ON (V <sub>DD</sub> goes high from low), or when the internal clock is stopped, the low level signal (display off mode) is output automatically.	CMOS push-pull
56 57	COM1 COM2	LCD Common Outputs	Common signal output pin to LCD panel. Up to 56 dots indications are possible with the matrix by LCD0 to 27. Three values of GND, 1/2 V <sub>p-p</sub> and V <sub>DD</sub> are output with an interval of 5 ms in synchronization of 100 Hz. When the potential difference of $\pm V_{DD}$ is generated between LCD 0—27 and these pins, the corresponding segments light up. When the power is turned ON (V <sub>DD</sub> goes high from low), or when the internal clock is stopped, the low level signal (display off mode) is output automatically.	CMOS push-pull
59 ~ 62	K3 ~ K0	Key Return Signal Outputs	4-bit input port. Normally used for key matrix inputs. For use in this specifications, refer to item 3-2 (c) I/O port.	Input
63	AD	Analog Digital input	A/D (analog to digital) converter input pin. As an A/D converter, the 6-bit successive approximation A/D converter is incorporated with the program. The reference voltage for A/D conversion is V <sub>DD</sub> (5 V $\pm 10\%$ ). For use in this specifications, refer to item 3-2 (c) I/O port.	Input
64	INT	Interrupt	Interruption request signal input pin. The interruption request signal is issued at the rising edge of the signal applied to this pin. For use in this specifications, refer to item 3-2 (c) I/O port.	Input

### (c) I/O Port

Port	Allocation	I/O	Functions
PA0	Power	O	<ul style="list-style-type: none"> <li>Power supply control output port. Power ON <math>\rightarrow</math> High    Power OFF <math>\rightarrow</math> Low</li> </ul>
PA1	Mute	O	<ul style="list-style-type: none"> <li>Audio muting output port. Used to cancel the shock noise when the PLL lock is detuned, or the pop noise when switching between Tape and Radio. Mute ON <math>\rightarrow</math> Low    Mute OFF <math>\rightarrow</math> High</li> </ul>
PA2	Tape/Radio	O	<ul style="list-style-type: none"> <li>Audio switching output port for Tape and Radio. In radio mode <math>\rightarrow</math> Low    In tape mode <math>\rightarrow</math> High However, while in the tape mode, when the radio sound is output such as "tuner call" or "DK interruption", it goes low.</li> </ul>
PA3	Loud	O	<ul style="list-style-type: none"> <li>Loudness control output port Loudness ON <math>\rightarrow</math> High    Loudness OFF <math>\rightarrow</math> Low</li> </ul>

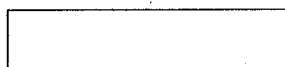
## CIRCUIT DESCRIPTION

Port	Allocation	I/O	Functions																
PB0	Dolby	O	<ul style="list-style-type: none"><li>When NR = 0: This functions as Dolby NR control output port together with B/C (PB1) in tape mode.</li></ul> <table><tr><th>Dolby</th><th>B/C</th><th>Function</th></tr><tr><td>0</td><td>0</td><td>off</td></tr><tr><td>0</td><td>1</td><td>—</td></tr><tr><td>1</td><td>0</td><td>Dolby-B</td></tr><tr><td>1</td><td>1</td><td>Dolby-C</td></tr></table> <ul style="list-style-type: none"><li>When NR = 1: This functions as Noise Reduction control output port. Noise Reduction ON → High Noise Reduction OFF → Low</li></ul>	Dolby	B/C	Function	0	0	off	0	1	—	1	0	Dolby-B	1	1	Dolby-C	
Dolby	B/C	Function																	
0	0	off																	
0	1	—																	
1	0	Dolby-B																	
1	1	Dolby-C																	
PB1	B/C	O	<ul style="list-style-type: none"><li>When NR = 0: This functions as Dolby NR control output port together with DOLBY (PB0) in tape mode.</li></ul> <table><tr><th>Dolby</th><th>B/C</th><th>Function</th></tr><tr><td>0</td><td>0</td><td>off</td></tr><tr><td>0</td><td>1</td><td>—</td></tr><tr><td>1</td><td>0</td><td>Dolby-B</td></tr><tr><td>1</td><td>1</td><td>Dolby-C</td></tr></table> <ul style="list-style-type: none"><li>When NR = 1: Not used.</li></ul>	Dolby	B/C	Function	0	0	off	0	1	—	1	0	Dolby-B	1	1	Dolby-C	
Dolby	B/C	Function																	
0	0	off																	
0	1	—																	
1	0	Dolby-B																	
1	1	Dolby-C																	
PB2	MTL	O	<ul style="list-style-type: none"><li>Metal tape function control output port. Metal ON → High    Metal OFF → Low</li></ul>																
PB3	T-ADV	O	<ul style="list-style-type: none"><li>Tape Advance function control output port. Tape Advance ON → High Tape Advance OFF → Low</li></ul>																
PC0	SDK	O	<ul style="list-style-type: none"><li>SDK mode select output port. SDK mode ON → High    SDK mode OFF → Low</li></ul>																
PC1	OP	O	<ul style="list-style-type: none"><li>Optional functions control output port. Option ON → High    Option OFF → Low</li></ul>																
PC2	DK OUT	O	<ul style="list-style-type: none"><li>SDK mode DK interruption function control output port. During DK interruption → High Other than above → Low</li></ul>																
PC3	AGC OUT	O	<ul style="list-style-type: none"><li>AGC control output port. Outputs high level signal when setting the value N for PLL. When setting the value N for PLL → High Other than above → Low</li></ul>																
PD1 PD2 PD3	FM MW LW	O O O	<ul style="list-style-type: none"><li>Tuner band select output port.</li></ul> <table><tr><th>Receiving-Band \ Port</th><th>FM</th><th>MW</th><th>LW</th></tr><tr><td>FM band</td><td>H</td><td>L</td><td>L</td></tr><tr><td>MW band</td><td>L</td><td>H</td><td>L</td></tr><tr><td>LW band</td><td>L</td><td>L</td><td>H</td></tr></table>	Receiving-Band \ Port	FM	MW	LW	FM band	H	L	L	MW band	L	H	L	LW band	L	L	H
Receiving-Band \ Port	FM	MW	LW																
FM band	H	L	L																
MW band	L	H	L																
LW band	L	L	H																
PL0 ~ PL3			<ul style="list-style-type: none"><li>Not used. Used for LCD segment output signal.</li></ul>																
K0 ~ K3		I	<ul style="list-style-type: none"><li>Used as the key matrix input.</li></ul>																
AD	SM	I	<ul style="list-style-type: none"><li>Signal meter lighting voltage detection input port.</li></ul>																
INT	SD	I	<ul style="list-style-type: none"><li>Station detector input port for tuning. Station is detected → Low Other than above → High</li></ul>																
CGP	BZ		<ul style="list-style-type: none"><li>Beep tone pulse output port. Outputs the 2.7273 kHz pulses for 60 ms.</li></ul>																

## CIRCUIT DESCRIPTION

(d) Key Structure  
(1) Key Matrix

	K3	K2	K1	K0
KS0	NR	Loud	Auto	Power
KS1	SDK	Band	FM	AM
KS2	OP(R)	OP(FM)	SA	P. Scan
KS3	CLK	Seek	Down	UP
KS4	1 Metal	2 T-ADV	3 T-Call	4 Dolby-B
KS5	5 Dolby-C	6	7	8
KS6	9	0	Direct	
KS8	Tape	Dir	FF/Rew	
KS9	DK	SK-Start	SK-Stop	ST
KS10	Band A ▽	Band B ▽		
KS11	POWSCT ▽	FM2 Band ▽	SDKSCT ▽	T-ADVST ▽
KS12	CLKSCT ▽	AUTOSCT ▽	Dolby ▽	NRSCT ▽



Momentary key



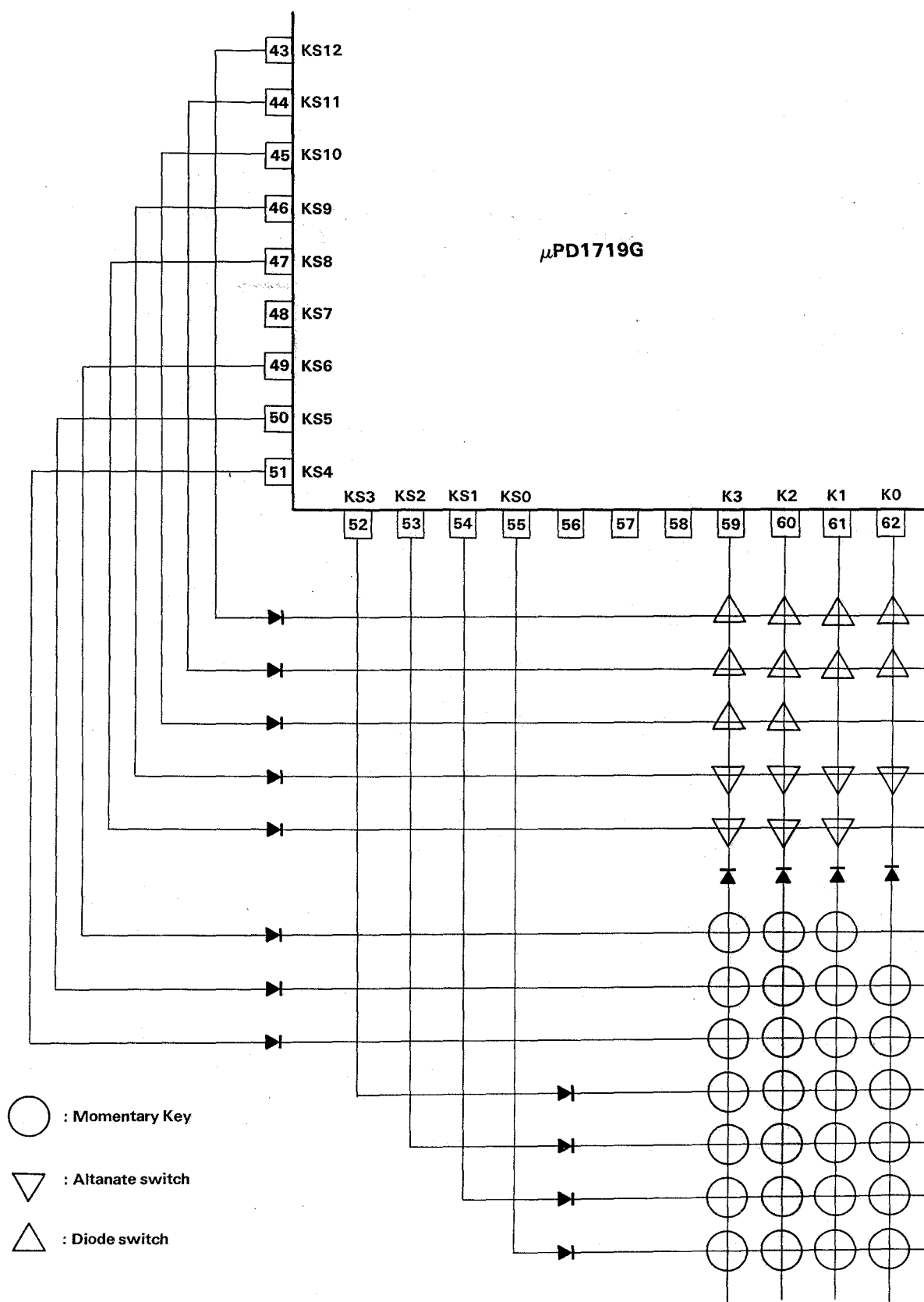
Alternate switch

Momentary key  
(dual function)

Initial set diode switch

## CIRCUIT DESCRIPTION

### (2) Key Matrix Connection and Type of Switch



## CIRCUIT DESCRIPTION

## (e) Key Description

## (1) Initial set diode:

There are nine types for initial set diodes. These are read out only when the reset signal is applied to the device (VDD goes high from low, or CE goes high from low).

- 1) Area specifying switch  
Band A, Band B
- 3) Power ON/OFF method select switch  
POWSCT
- 4) Switch for setting the number of FM Band  
FM2 Band
- 5) Switch to select the presence of SDK mode  
SDKSCT
- 6) Switch to select the presence of Tape Advance function  
T-ADVSCT

- 7) Switch to select the presence of clock function  
CLKSCT

- 8) Auto mode initial set switch.  
AUTOSCT

- 9) Switch to set the presence of Dolby-B/C and NR functions.  
Dolby, NRSCT

These setting should be made by short-circuiting the crossing point on the matrix using diode, or leaving it open.

In the table below, "0" shows open status, while "1" should that it is short-circuited by diode.

Name	Functions															
Band A Band B	<p>These switches are used to set the area (version of the model). By combination of tow diodes, the model can be specified for each area (version).</p> <table><tr><th>Bnad A</th><th>Band B</th><th>Area</th></tr><tr><td>0</td><td>0</td><td>U.S.A.</td></tr><tr><td>0</td><td>1</td><td>Japan</td></tr><tr><td>1</td><td>0</td><td>Europe</td></tr><tr><td>1</td><td>1</td><td>Middle East</td></tr></table> <p>When the U.S.A. or Middle East is selected, the area designation can be exchanged each other by operating the momentary switch. For its operation, refer to the description about "1" to "0" in the item 3-2 (e)-(3). For each band plan, refer to item 2-2 (a).</p>	Bnad A	Band B	Area	0	0	U.S.A.	0	1	Japan	1	0	Europe	1	1	Middle East
Bnad A	Band B	Area														
0	0	U.S.A.														
0	1	Japan														
1	0	Europe														
1	1	Middle East														

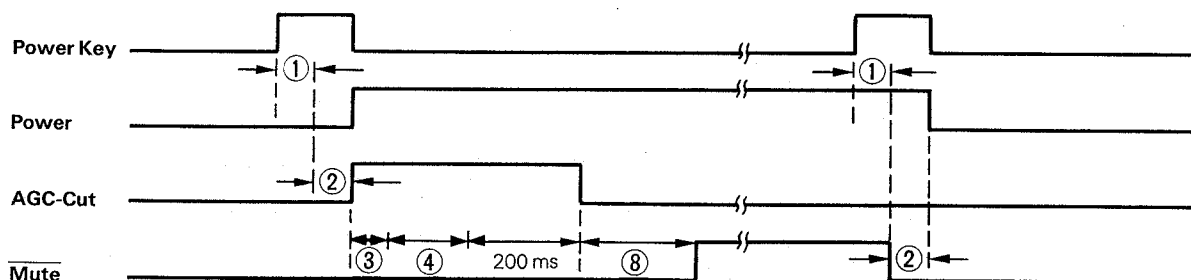
## CIRCUIT DESCRIPTION

### 3-5. MUTE TIMING CHART

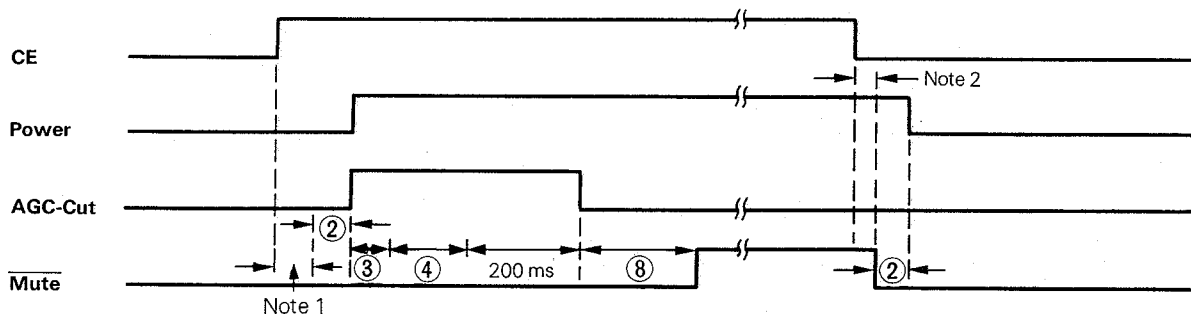
- ① Key-ON chattering prevention period: About 50 ms
- ② Pre-output Mute period: About 50 ms
- ③ PLL data set, output and display renewal time:
- ④ PLL lock-up time:
- ⑤ Time till SD detection after PLL lock-up
  - FM for Europe, Middle East version (25, 50 kHz step): About 25 ms
  - FM for other areas (100, 200 kHz step): About 50 ms
  - MW, LW: About 125 ms
  - Band edge (for all bands): About 200 ms
- ⑥ Time till second SD detection: About 50 ms
- ⑦ Time till SK detection: 250—375 ms
- ⑧ Pose-output Mute period: 250—375 ms

#### (1) Power ON/OFF:

Power ON/OFF by key operation



Power ON/OFF by CE pin



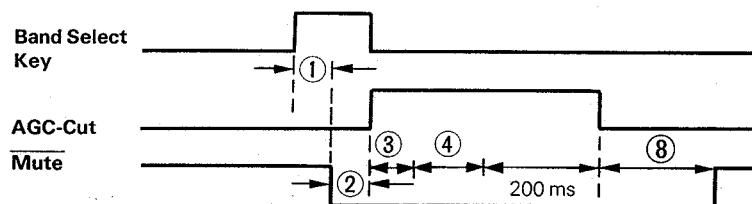
Note 1: Program does not start for 125 ms max. by rising time timing. CE rising processing will be performed.

Note 2: Low level CE signal of less than 134 us will not be accepted.

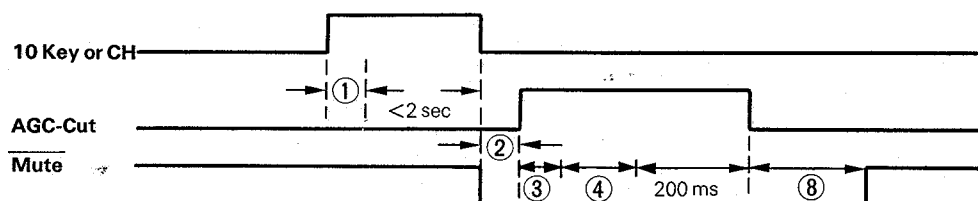


## CIRCUIT DESCRIPTION

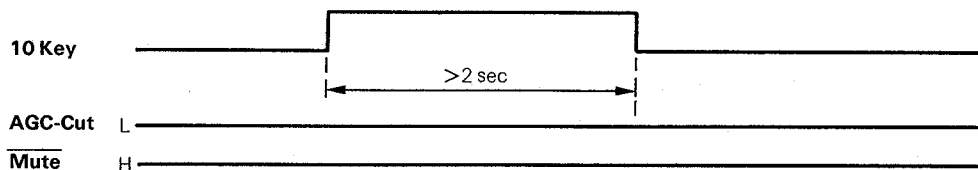
### (2) Band Select:



### (3) Preset Channel Recall

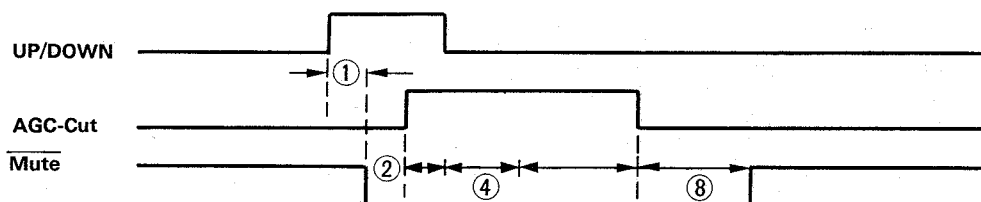


### (4) Preset Memory Write

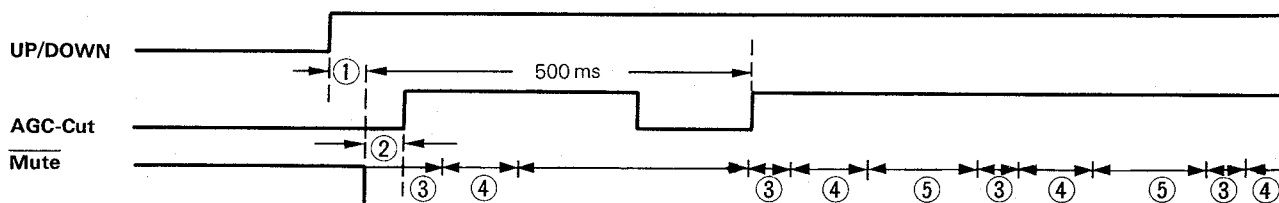


### (5) Manual UP/DOWN

Depressing (ON) of more than 500 ms

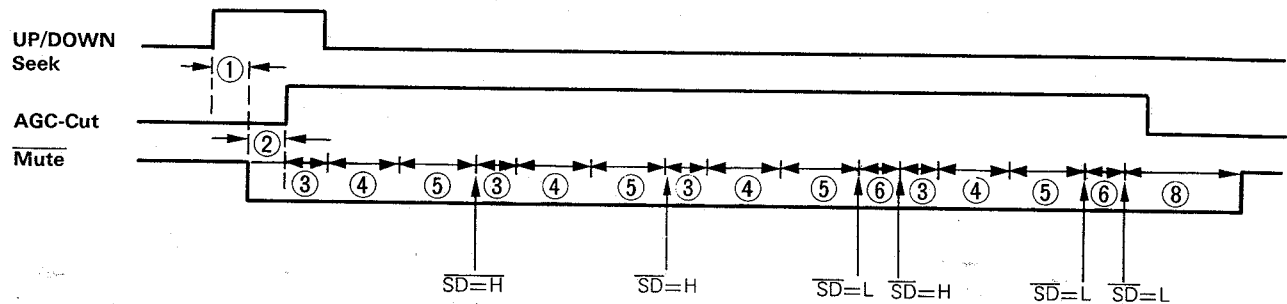


Depressing (ON) of less than 500 ms



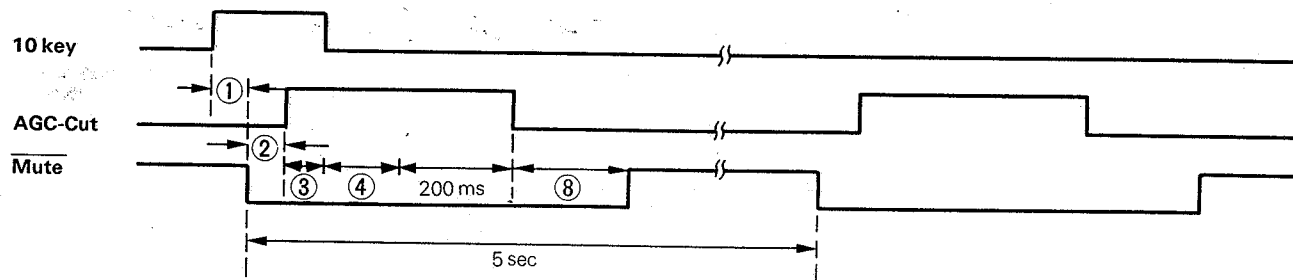
## CIRCUIT DESCRIPTION

### (6) Auto UP/DOWN

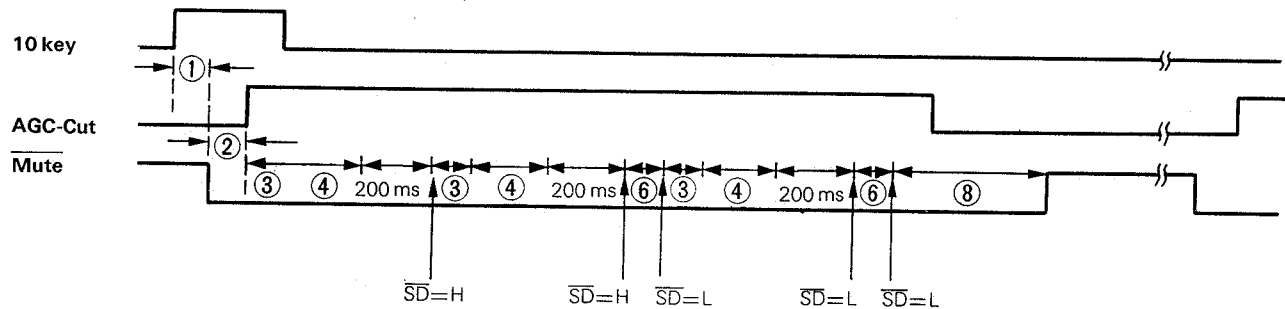


### (7) Preset Scan

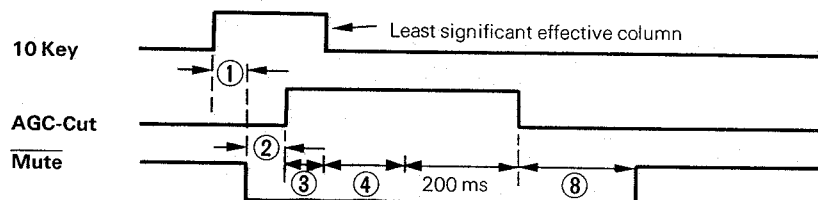
Manual mode



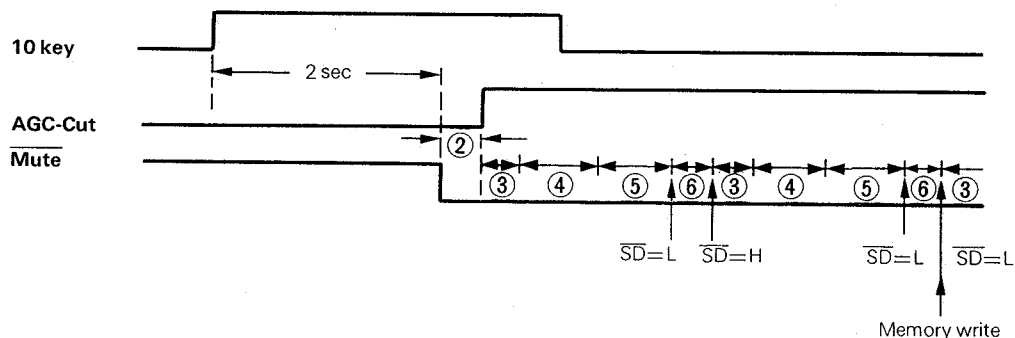
Auto mode



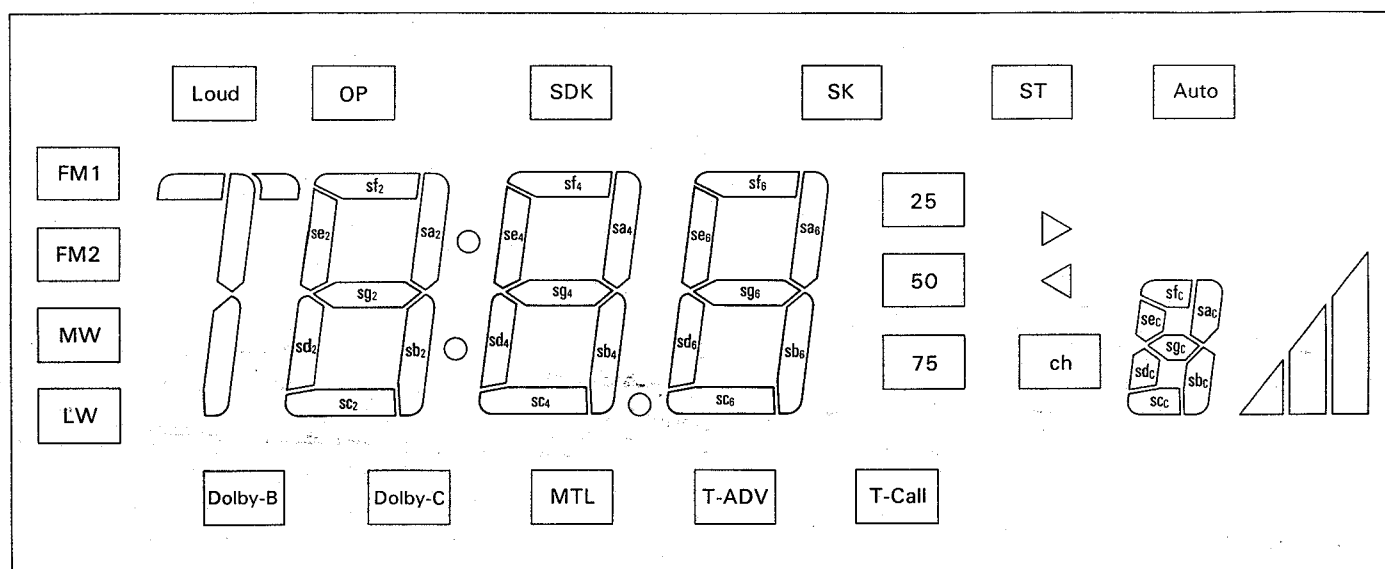
### (8) Direct Access



### (9) Auto Memory



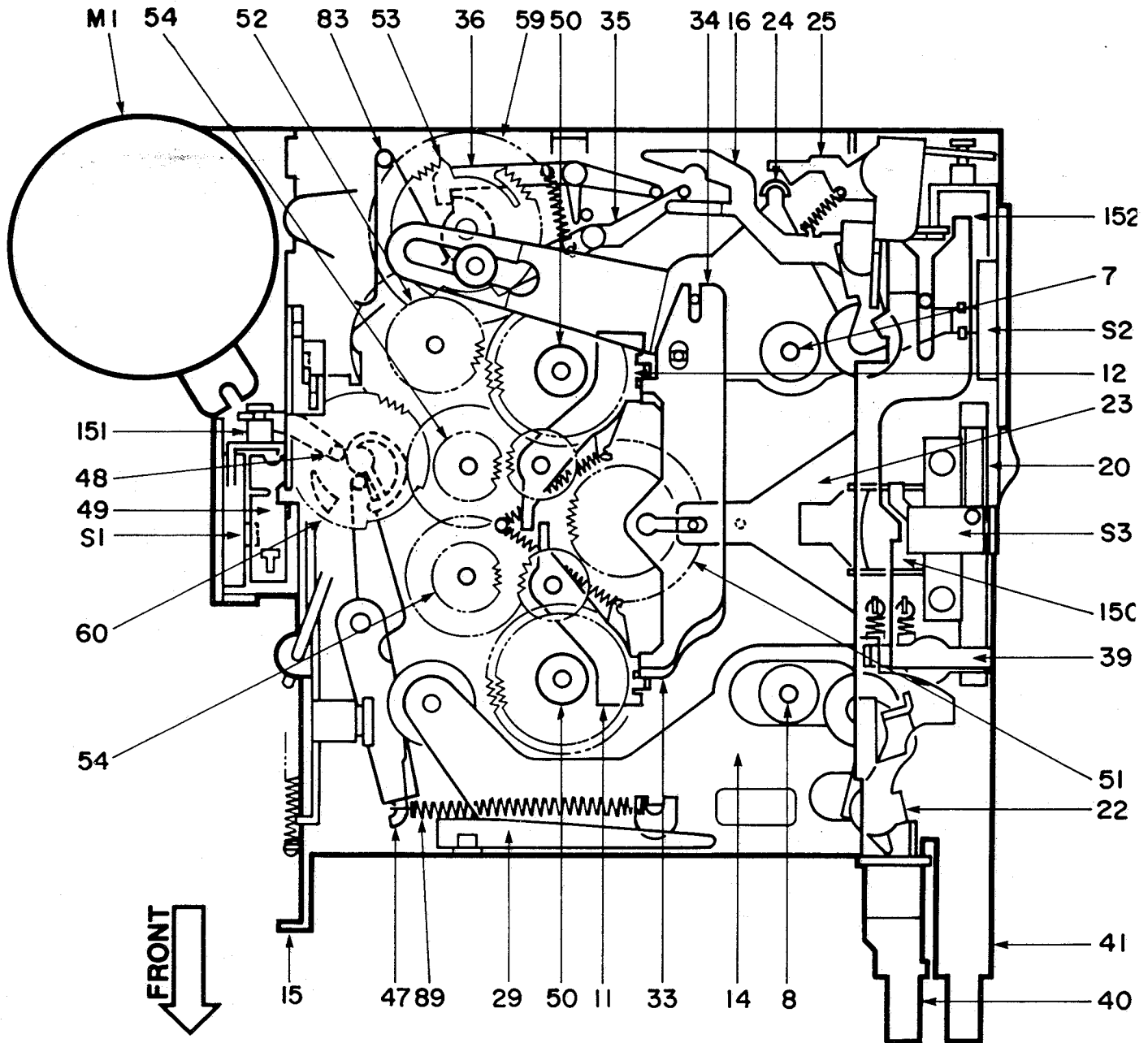
## CIRCUIT DESCRIPTION



## LCD Matrix

Terminal Name	COM2 Layout	COM1 Layout	Terminal Name	COM2 Layout	COM1 Layout
LCD 0	FM2	FM1	LCD 14	$sd_6$	$SC_6$
1	LW	MW	15	$sa_6$	SDK
2	Loud	cp	16	25	50
3			17	75	ST
4	$sf_2$	$sb_2$	18	SK	Auto
5	$es_2$	$sg_2$	19	►	◄
6	$sd_2$	$sc_2$	20	$sa_c$	ch
7	$sa_2$	: (colon)	21	$sf_c$	$sb_c$
8	$sf_4$	$sb_4$	22	$se_c$	$sg_c$
9	$se_4$	$sg_4$	23	$sd_c$	$SC_c$
10	$sd_4$	$sc_4$	24	Dolby-C	Dolby-B/NR
11	$sa_4$	$sa_4$	25	T-ADV	T-Call
12	$sf_6$	$sb_6$	26	SM Min.	Metal
13	$se_6$	$sg_6$	27	SM Max.	SM Mid.

## MECHANISM OPERATION DESCRIPTION

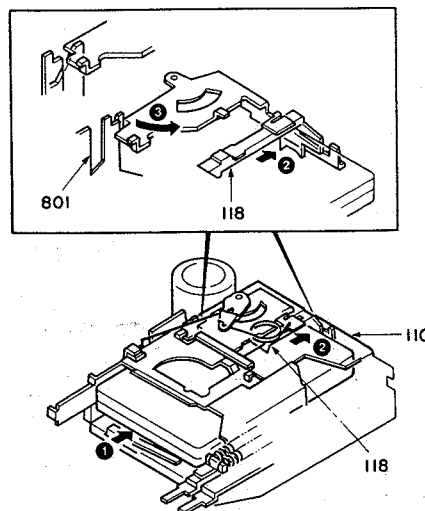


Parts Description (Front perspective view)

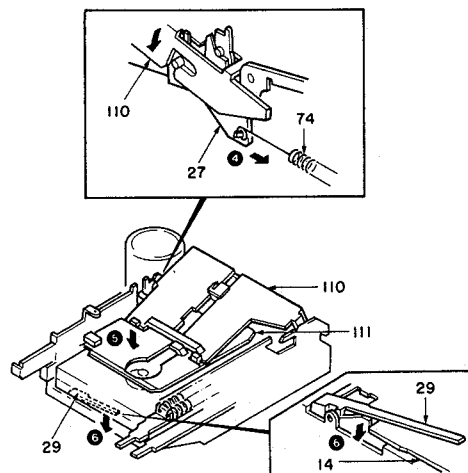
## MECHANISM OPERATION DESCRIPTION

### LOADING

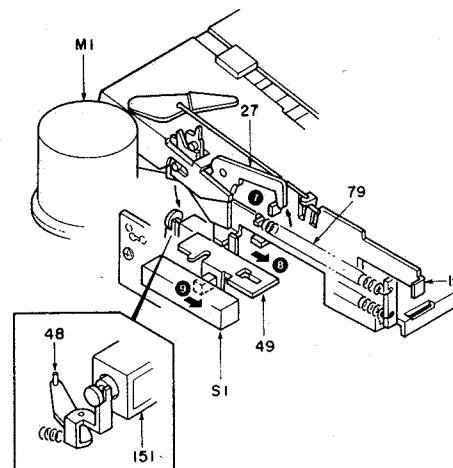
1. Insert a cassette tape (①).
2. The cassette guide (118) pushes the lever (reverse) (②).
3. The lever (reverse) turns in the direction of the arrow and releases the lock of the holder (action plate [110]) (③).



4. Through the lock release of the lever (reverse), the arm (action [27]) is pulled by the tension spring (74), which turns the holder (action plate [110]). The holder (action plate) descends (④).
5. Through the descent of the holder (action plate [110]), the holder (cassette case [111]) also descends (⑤).
6. As the holder (cassette case [111]) descends, the cassette tape pushes the lever (lock plate [29]). The lever (lock plate [29]) then releases the lock of the lever assembly (head plate [14]) (⑥).

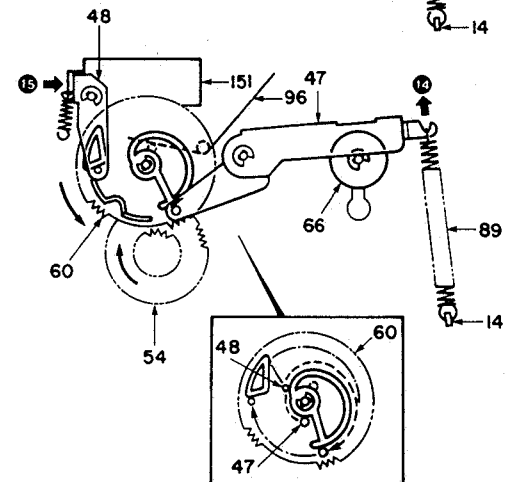
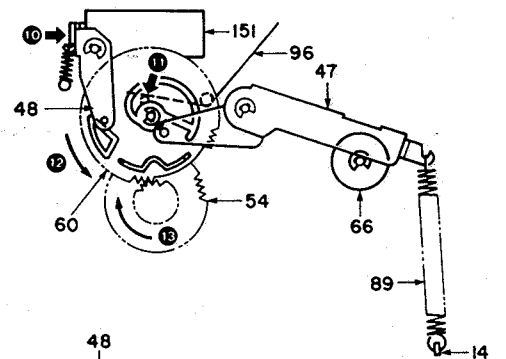
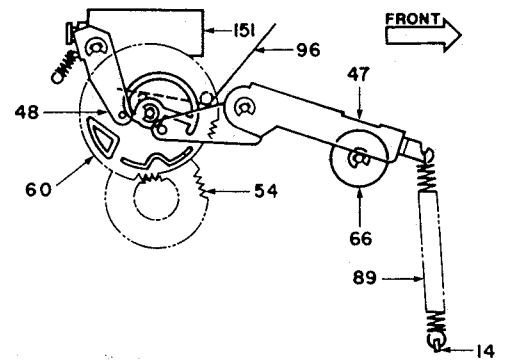


7. As the arm (action [27]) turns, the lock of the lever assembly (eject [15]) is released (⑦).
8. The lever assembly (eject [15]) is pulled by the tension spring (79) and moves forward (⑧).
9. Through the movement of the lever assembly (eject [15]), the lever (49) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) and to the solenoid (151) (⑨).

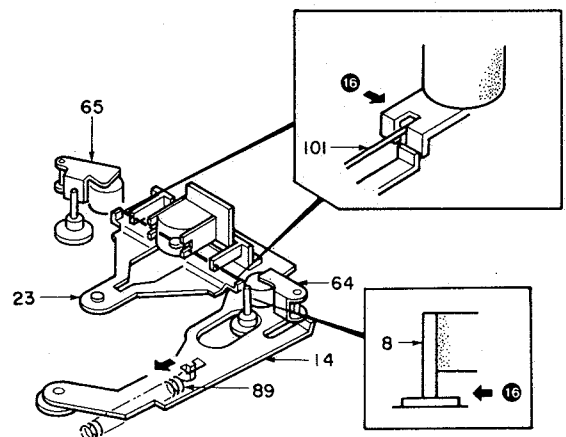


## MECHANISM OPERATION DESCRIPTION

10. The solenoid (151) pulls the lever assembly (48) (10).
11. The gear (setting [60]) is pushed in the direction of the arrow by the torsion coil spring (96) (11).
12. The gear (setting [60]) turns in the direction of the arrow (12).
13. In turning, the gear (setting [60]) engages with the gear (take-up [54]) (13).
14. The rotation of the motor assembly (M1) is transmitted to each gear, and makes the gear (setting [60]) turned. Through the contact of the gear (setting [60]) with the arm assembly (47) and torsion coil spring (89) pull the lever assembly (head plate [14]), and the lever assembly (head plate [14]) moves forward (14).
15. The lever assembly (48) is locked by the solenoid (151) (15).

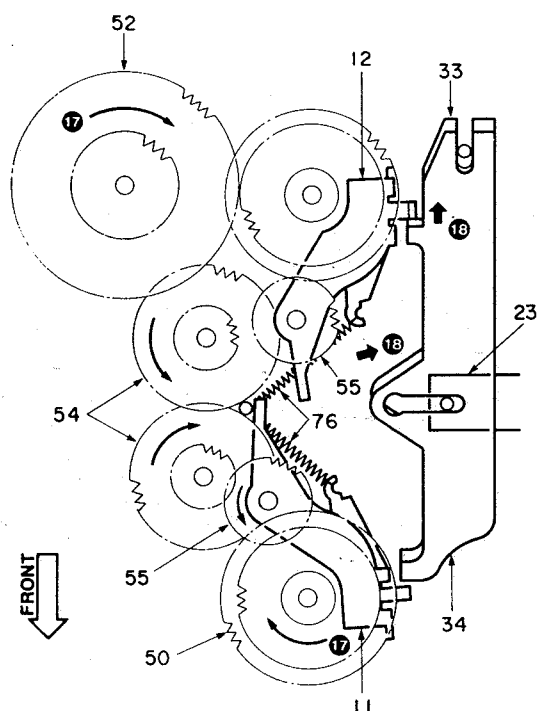


16. Through the forward movement of the lever assembly (head plate [14]), pinch roller assemblies (R & F [64, 65]) make close contact with the shaft of the flywheel assembly (R[8]) through the formed wire (101) (16).



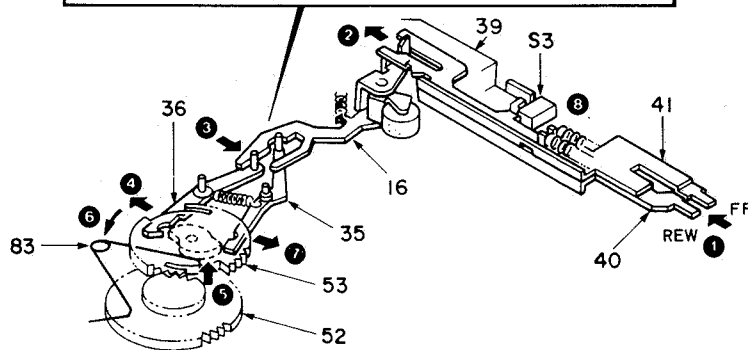
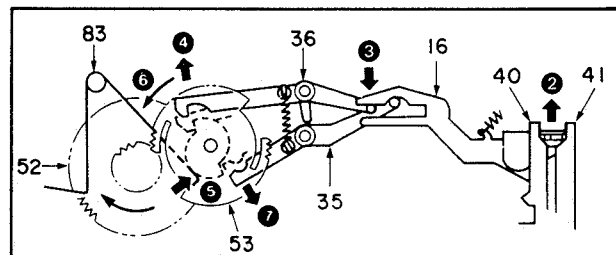
## MECHANISM OPERATION DESCRIPTION

17. The rotation is transmitted from each gear (52 → 54 → 55) to the gear assembly (reel base [50]) of the take-up side (17).
18. The gear assembly (reel base [50]) of the pay-out side is pushed toward the slider assembly (12) by the lever (33) and the gear (take-up [55]) is disengaged in the direction of the arrow (18).



### PROGRAM

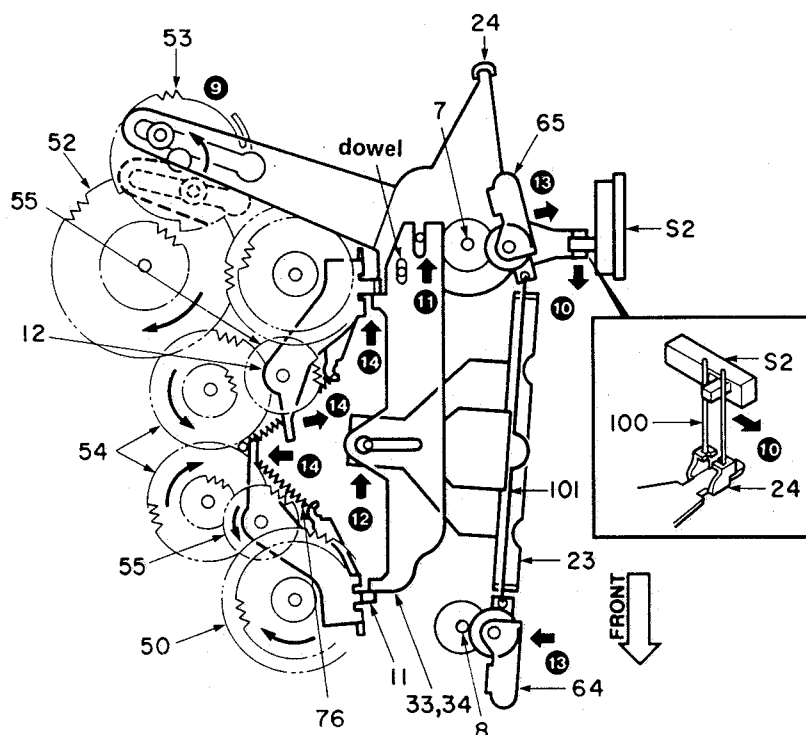
1. Push both levers (FR [40] and FR [41]) by hand at the same time (1).
2. The calking of the lever assembly (reverse [16]) is sandwiched between the lever (FR [40]) and the lever (FR [41]), and pushes the lever assembly (reverse [16]) (2).
3. The lever assembly (reverse [16]) moves the arm (36) (3).
4. The arm (36) releases the lock of the gear assembly (switch [53]) (4).
5. The torsion coil spring (83) pushes the cam of the gear assembly (switch [53]) in the direction of the arrow (5).
6. The gear assembly (switch [53]) is pushed by the torsion coil spring (83), turns in the direction of the arrow, engages in the gear assembly (take-up [52]), and makes a half-turn (6).
7. The arm (35) functions as a stop temporarily at this time; the stop is released when the reverse lever returns (7).
8. The muting during the program is done by the leaf switch S3 mounted on the lever assembly (side panel [39]) (8).



## MECHANISM OPERATION DESCRIPTION

### FROM FWD PLAY TO RVS PLAY

9. the gear assembly (switch [53]) moves the arm (24) from the FWD PLAY position to the RVS PLAY position through the movement of its boss (9).
10. Through the movement of the arm (24), the slide switch S2 is switched by the formed wire spring (100) (10).
11. The arm (24) moves the lever (33). The lever on it (34) moves at the same time through the dowel on the arm (24) (11).
12. The lever (33) moves the arm (23) (12).
13. Through the formed wire (PR [101]) of the arm (23), the pinchroller assembly (R [64]) contacts the shaft of the flywheel assembly (R [8]), and the pinch roller assembly (F [65]) is detached from the shaft of the flywheel assembly (F [7]) (13).
14. Through the movement of the lever (33) in the direction of the arrow (11), the gear (take-up [55]) attached to the slider assembly (11) is pushed by the lever (33), and the rotation is removed from the gear (take-up [54]).  
Through the movement of the lever (33) in the direction of the arrow (11), the gear (take-up [55]) attached to the slider assembly (11) is pulled by the tension spring (76), engages with the gear (take-up [54]), and the rotation is transmitted from the gear assembly (52→54→55→50) (14).



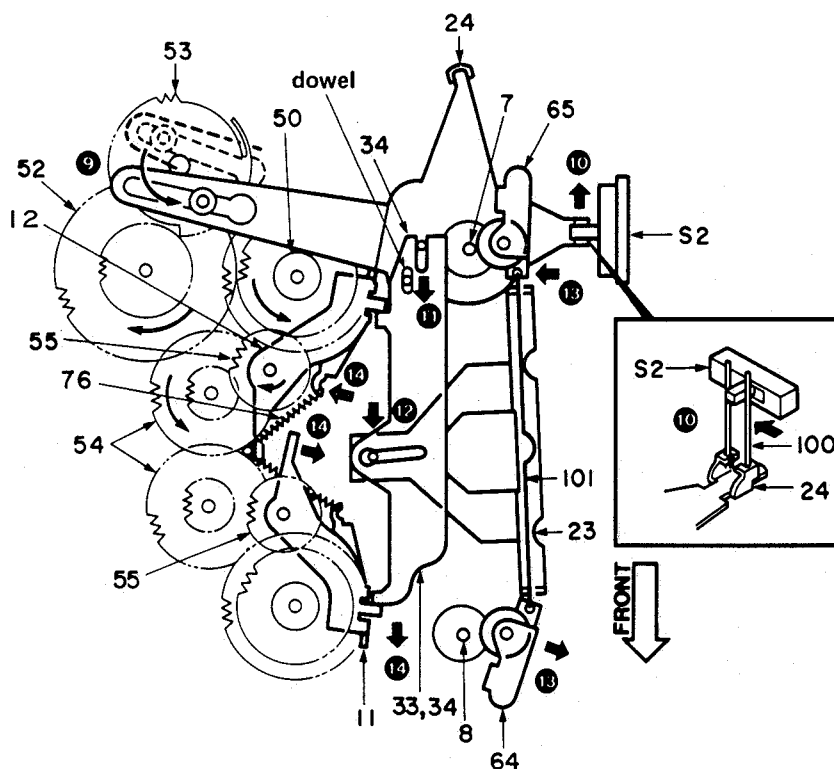


## MECHANISM OPERATION DESCRIPTION

### FROM RVS PLAY TO FWD PLAY

9. The gear assembly (switch [53]) moves the arm (24) from the FWD PLAY position to the RVS PLAY position through the movement of its boss (9).
10. Through the movement of the arm (24), the slide switch S2 is switched by the formed wire spring (100) (10).
11. The arm (24) moves the lever (34). The lever under it (33) moves at the same time through the dowel or the arm (24) (11).
12. The lever (34) moves the arm (23) (12).
13. Through the formed wire spring (PR [101]) of the arm (23), the pinchroller assembly (F [65]) contacts the shaft of the flywheel assembly (F [7]), and the pinch roller assembly (R [64]) is detached from the shaft of the flywheel assembly (R [8]) (13).

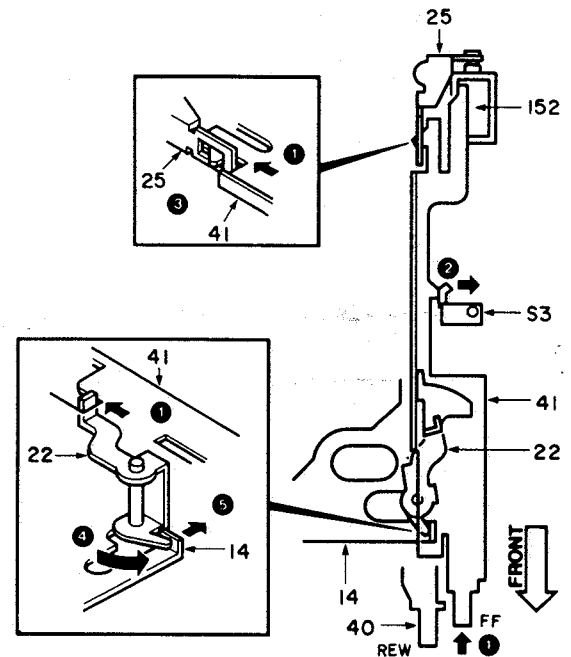
14. Through the movement of the lever (33) in the direction of the arrow (11), the gear (take up [55]) attached to the slider assembly (11) is pushed by the lever (33), and the rotation is removed from the gear (take-up [54]).  
Through the movement of the lever (33) in the direction of the arrow (12), the gear (take-up [55]) attached to the slider assembly (11) is pulled by the tension spring (76), engages with the gear (take up [54]), and the rotation is transmitted from the gear assembly (52→54→55→50) (14).



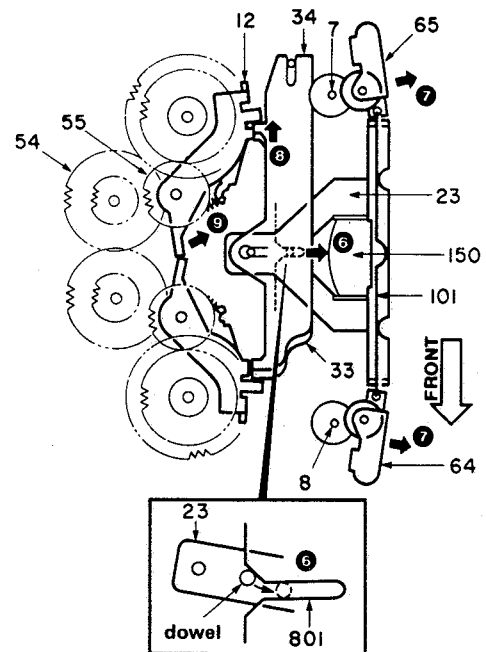
## MECHANISM OPERATION DESCRIPTION

FF

1. Push the lever (FR [41]) (1).
2. Pushing the lever (FR [41]) makes the leaf switch S3 turn on and muting is applied (2).
3. The lever (FR [41]) is locked by the arm (FR release [25]) (3).
4. By pushing the lever (FR [41]), the lever (FR cam [22]) is pushed in the direction of the arrow (4).
5. Through being pushed, the lever (FR cam [22]) moves the lever assembly (head plate [14]) backward a little. Through the backward movement of the lever assembly (head plate [14]), the playback head (150) also moves backward a little (5).

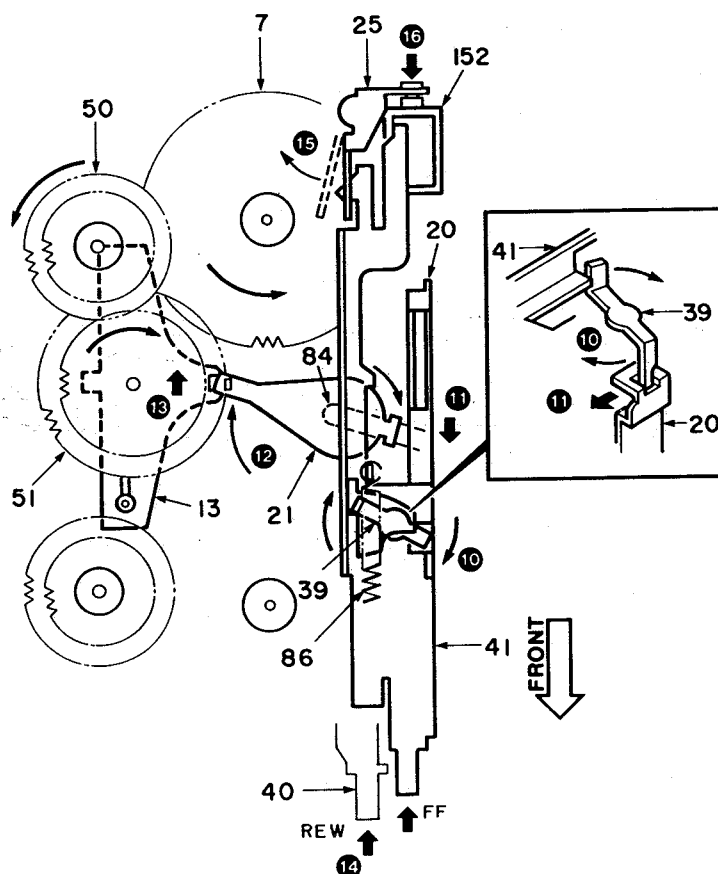


6. The arm (23) is slightly at an angle to the lever (34); however, through the backward movement of the lever assembly (head plate [14]), the arm (23) moves backward, its dowel being guided by the slot in the mechanism chassis (801) (6).
7. By moving the arm (23) backward, the pinch roller assembly (R [64]) and the pinch roller assembly (F [65]) move backward from the shafts on the flywheel assembly (F [7]) and the flywheel assembly (R [8]) through a formed wire spring (101) (7).
8. Through the backward movement of the dowel on the arm (23), the lever (34) moves in the direction of the arrow (8).
9. The gear (take-up [55]) attached to the slider assembly (B [12]) disengages from the gear (take-up [54]), and the take-up torque is removed (9).



## MECHANISM OPERATION DESCRIPTION

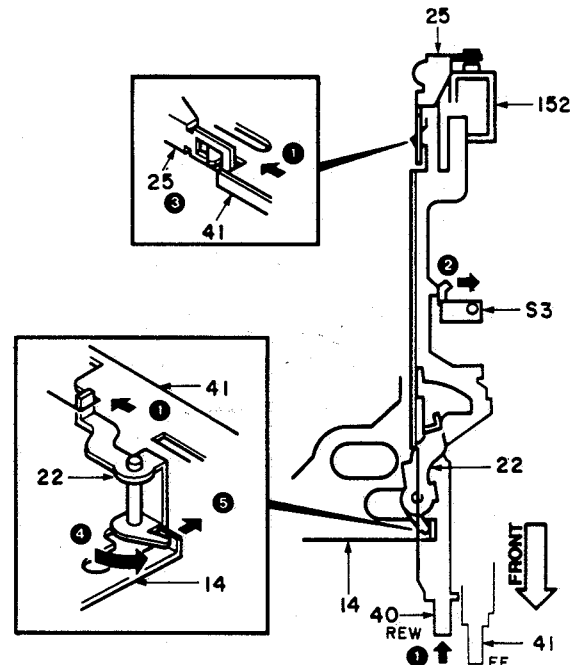
10. Meanwhile, through pushing the lever (FR [41]), the calking lever attached to the lever assembly (side panel [39]) is pushed by the lever (FR [41]) (10).
11. Through pushing the calking lever, the lever (FR cam [20]) moves forward (11).
12. Through the forward movement of the lever (FR cam [20]) the torsion coil spring (84) and the lever (FR cam [21]) turn in the direction of the arrow (12).
13. Through the turning of the lever (FR cam [21]), the gear assembly (FR gear [51]) attached to the lever assembly (FR [13]) engages with the gear of the flywheel assembly (F [7]) and turns the gear of the gear assembly (FR gear) in the direction of the arrow (13).
14. To release FF, slightly depress the lever (FR [40]) (14).
15. By depressin the lever (FR [40]), the arm (FR release [25]) moves, and the lever (FR [41]) returns by the tension of the tension spring (86) (15).
16. In the operation of T.ADV, electricity is supplied to the solenoid (152), which attracts the arm (FR release [25]). The lock on the arm (FR release [25]) is released, FF is released and FWD PLAY is engaged (16).



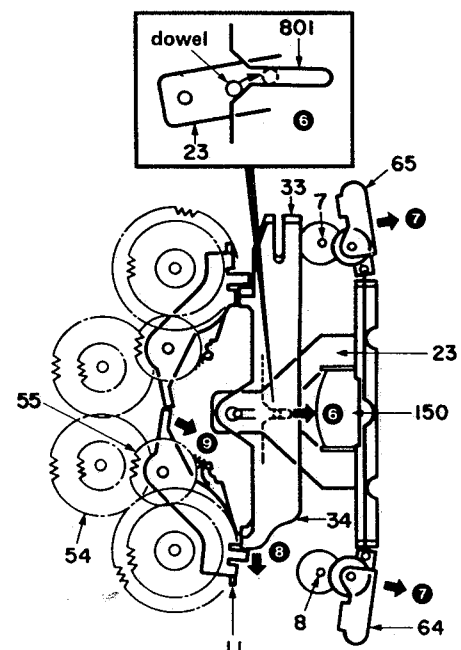
# MECHANISM OPERATION DESCRIPTION

## REW

1. Push the lever (FR [40]) (1).
2. Pushing the lever (FR [40]) closes the leaf switch S3 and muting is applied (2).
3. The lever (FR [40]) is locked by the arm (FR release [25]) (3).
4. By pushing the lever (FR [40]), the lever (FR cam [22]) is pushed in the direction of the arrow (4).
5. Through being pushed, the lever (FR cam [22]) moves the lever assembly (head plate [14]) backward a little. Through the backward movement of the lever assembly (head plate [14]), the playback head (150) also moves backward a little (5).

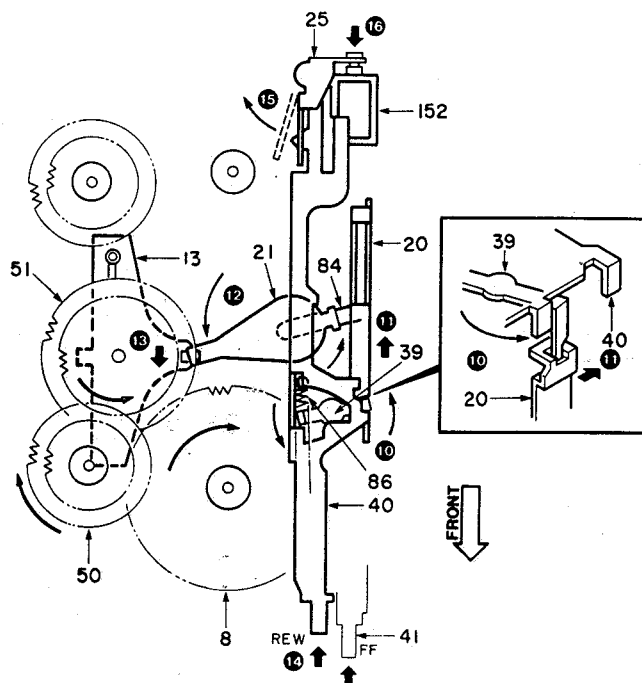


6. The arm (23) is slightly at an angle to the lever (34); however, through the backward movement of the lever assembly (head plate [14]), the arm (23) moves backward, its dowel being guided by the slot in the mechanism chassis (801) (6).
7. Through the backward movement of the arm (23), the pinch roller assembly (F [7]) and the pinch roller assembly (R [8]) move backward from the shafts of the flywheel assembly (F [7]) and the flywheel assembly (R [8]) (7).
8. Through the backward movement of the dowel on the arm (23), the lever (34) moves in the direction of the arrow (8).
9. The gear (take-up [55]) attached to the slider assembly (A [11]) disengages from the gear (take-up [54]), and the take-up torque is removed (9).



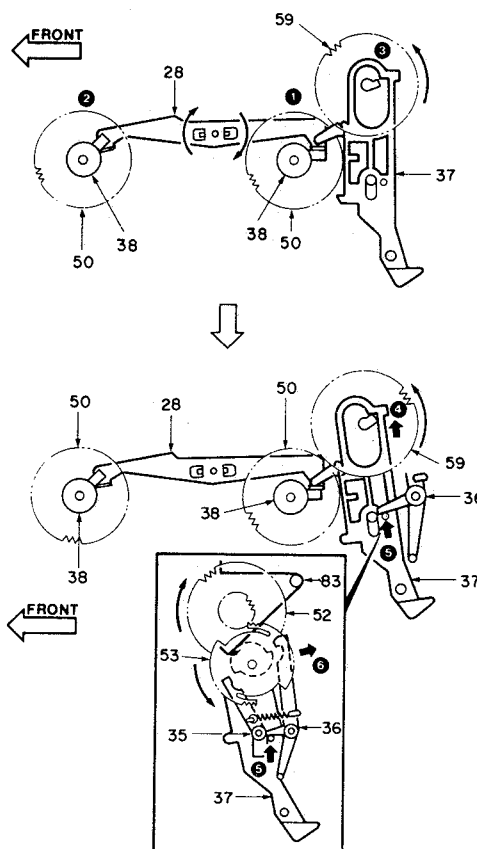
## MECHANISM OPERATION DESCRIPTION

10. Meanwhile, through pushing the lever (FR [40]), the calking lever attached to the lever assembly (side panel [39]) is pushed by the lever (FR [40]) (10).
11. By pushing the calking lever, the lever (FR cam [20]) moves backward (11).
12. By the backward movement of the lever (FR cam [20]), the torsion coil spring (84) and the lever (FR cam [21]) turn in the direction of the arrow (12).
13. Through the turning of the lever (FR cam [21]), the gear assembly (FR gear [51]) attached to the lever assembly (FR [13]) engages with the gear of the fly wheel assembly (R [8]) and turns the gear of the gear assembly (FR gear [51]) in the direction of the arrow (13).
14. To release REW, slightly depress the lever (FR [41]) (14).
15. By depressing the lever (FR [41]), the arm (FR release [25]) moves, and the lever (FR [40]) returns by the tension of the tension spring (86) (15).
16. In the operation of T.ADV, electricity is supplied to the solenoid (152), which attracts the arm (FR release [25]). The lock on the arm (FR release [25]) is released, REW is released, and RVS PLAY is engaged (16).



### AUTO REVERSE

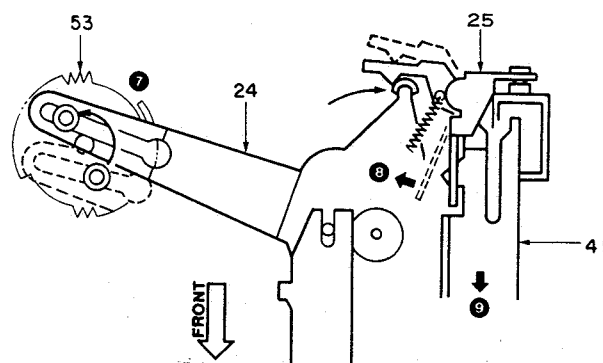
1. During FWD PLAY, when the rotation of the gear assembly (reel base [50]) of the take-up side stops at the end of the tape, the lower lever (sensor [38]) stops pushing the lever (sensor [28]) (1).
2. The operation for RVS PLAY is the same as that for FWD PLAY (2).
3. These end sensors on the take-up side stop pushing the end sensor lever (3).
4. The lever (sensor [37]) moves forward, riding on the cam of the gear (switch [59]) (4).
5. Through the forward movement of the lever (sensor [37]), its boss pushes the arm (36) (5).
6. The arm (36) releases the lock of the gear (switch [53]), the gear assembly (switch [53]) is pushed by the torsion coil spring (83), and engages with gear assembly (take-up [52]) (6).



## MECHANISM OPERATION DESCRIPTION

7. The gear (switch [53]) makes a half-turn, and operates the program (7).
8. At the tape end during the operation of FF or FWD, the end sensor is activated, and the arm (24) moves the lever (reverse [25]) during the program operation (8).
9. The level (FR [41]) and the lever (FR [40]) are released (9).

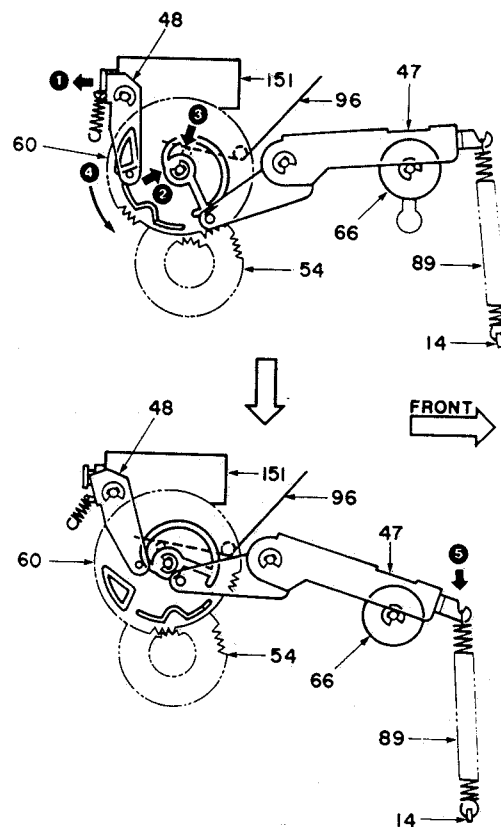
\* The rotation of the gear assembly (reel base [50]) resets the lever (sensor [37]). The cam of the gear (switch [59]) pushes the lever (sensor [37]) to set it. After a half-turn of the cam of the gear assembly (switch [59]), the lever (sensor [37]) moves forward.



### KEY OFF RELEASE

1. When ACC is turned off, the solenoid (151) is turned off (1).
2. The solenoid (151) release the lever assembly (48) (2).
3. The cam of the gear (setting [60]) is pushed by the torsion coil spring (96) (3).
4. In being pushed by the torsion coil spring (96), the gear (setting [60]) turns in the direction of the arrow, and the lever assembly (48) releases the lock of the gear (setting [60]) (4).
5. When the arm assembly (47) is released, the tension spring (89) moves the lever assembly (head plate [14]) backward (5).

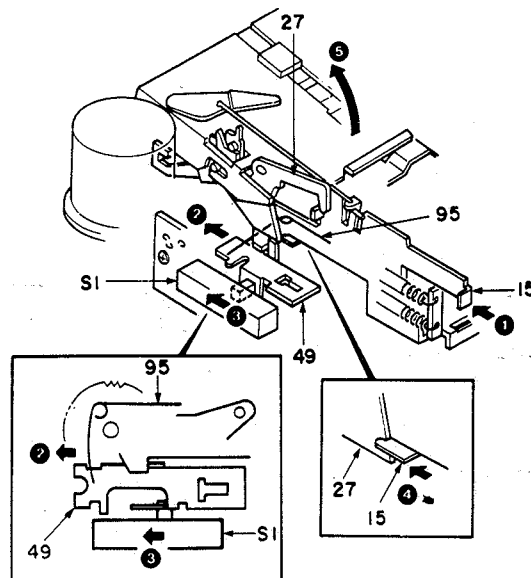
\* At the time of KEY OFF, the pinch roller, tape, and head are separated. (KEY OFF EJECT does not take place.) When ACC is on in this condition, the gear (setting [60]) rotates, and FWD PLAY takes place.



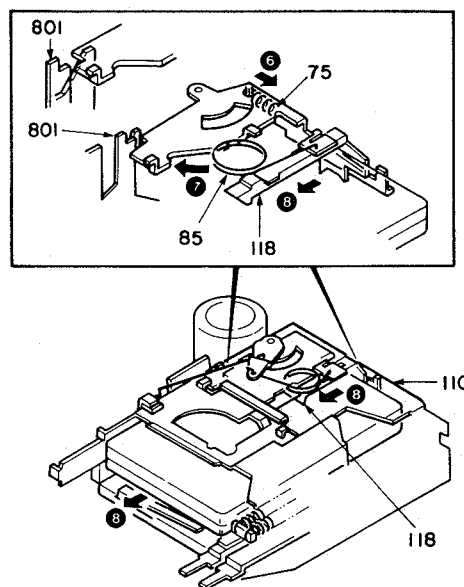
## MECHANISM OPERATION DESCRIPTION

### EJECT

1. Push the lever assembly (eject [15]) (①).
2. By pushing the lever assembly (eject [15]), the torsion coil spring (95) pushes the lever (49) (②).
3. Through pushing the lever (49), the slide switch S1 is turned off, and the lever assembly (head plate [14]) moves backward in the KEY OFF operation (③).
4. The lever assembly (eject [15]) pushes and turns the arm (action [27]) (④).
5. By turning, the arm (action) pushes up the holder (action plate [110]) (⑤).



6. When the holder (action plate [110]) is pushed up, the lever (reverse) is pulled by the tension spring (75) and turns (⑥).
7. In turning, the lever (reverse) is put on the lever of the mechanism chassis (801) (⑦).
8. The cassette guide (118) is pushed forward by the torsion coil spring (85), and the cassette tape is ejected (⑧).



## ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position    LOUD :OFF    AUTO :OFF  
 FADER :center position    T-ADV :OFF  
 BASS :center position    METAL :OFF  
 TREBLE :center position    DOLBY NR :OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER(RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dBμ(Ant input)	Connect the DC voltmeter to TP2 (X86)	FM 98.1MHz	T1 (X86)	0V	(a)
2	SEPARATION	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6kHz dev Selector: L or R 60dBμ(Ant input)	(B)	FM 98.1MHz	VR4 (X86)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC	(C) 98.1MHz 1kHz, ±40kHz dev Pilot: ±6kHz dev Selector: L or R 35dBμ(Ant input)	(B)	FM 98.1MHz	VR1 (X86)	Separation 10dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 1kHz, ±40kHz dev 20dBμ(Ant input)	Connect the DC voltmeter to TP1 (X86)	FM SEEK: ON 98.1MHz	VR2 (X86)	"H" level with input of 20dBμ or more	(b)
5	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ±40kHz dev 60dBμ→No input	(B)	FM 98.1kHz	VR3 (X86)	Output Noise level -25dBμ (When not add any signal to ANT terminal)	
6	S-METER	(A) 98.1MHz 1kHz, ±40kHz dev 20dBμ(Ant input)	—	FM 98.1kHz	VR2 (X14)	One of them lights up with 20dBμ input.	
SDK SECTION							
7	DK LEVEL	(E) 98.1MHz 1kHz, ±40kHz dev SK 5.33% DK 30% BK 60% 60dBμ(Ant input)	Connect the AC voltmeter to TP1 (X14)	FM 98.1MHz SDK: ON	L1 VR4 (X14)	Maximum	(c)
AM SECTION							
(1)	SEEK STOP LEVEL	(D) 999kHz 400Hz, 30% mod 35dBμ(Ant input)	Connect the DC voltmeter to TP2 (X14)	AM 999kHz	VR3 (X14)	"L" level with input of 35dBμ or more	(d)
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(e)
[2]	PLAYBACK LEVEL	MTT-150	Connect the AC voltmeter to TP1 (X09)	TAPE PLAY	VR1(L) VR2(R) (X87)	388mV	(f)



## REGLAGE

Régler les controles et les boutons comme suit.

BALANCE :position centre      LOUD :OFF      AUTO :OFF  
 FADER :position centre      T-ADV :OFF  
 BASS :position centre      METAL :OFF  
 TREBLE :position centre      DOLBY NR :OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR	(A) 98,1MHz 0 dév 60dBμ(Entrée ANT)	Connecter le voltmètre CC à TP2 (X86)	FM 98,1MHz	T1 (X86)	0V	(a)
2	SEPARATION	(C) 98,1MHz 1kHz.±40kHz dév Pilote:±6kHz dév Selecteur:G ou D 60dBμ(Entrée ANT)	(B)	FM 98,1MHz	VR4 (X86)	Le régler de manière à ce que la diaphonie de L à R et de R à L devienne minimum.	
3	ANRC	(C) 98,1kHz 1kHz.±40kHz dév Pilote:±6kHz dév Selecteur:G ou D 35dBμ(Entrée ANT)	(B)	FM 98,1MHz	VR1 (X86)	Séparation 10dB	
4	NIVEAU DE CHERCHER D'ARRET	(A) 98,1MHz 1kHz.±40kHz dév 20dBμ(Entrée ANT)	Connecter le voltmètre CC à TP1 (X86)	FM CHERCHER:ON 98,1MHz	VR2 (X86)	Niveau " H " avec entrée de 20dBμ ou plus.	(b)
5	NIVEAU DE SOFT MUTE	(A) 98,1MHz 1kHz.±40kHz dév 60dBμ→Entrée NO	(B)	FM 98,1MHz	VR3 (X86)	Bruit de niveau de sortie -25dBμ (Sous non correspondance d'antenne.)	
6	INDICATEUR DE CHAMP	(A) 98,1MHz 1kHz.±40kHz dév 20dBμ(Entrée ANT)		FM 98,1MHz	VR2 (X14)	L'un d'eux s'allume avec une entrée de 20dBμ.	
SECTION SDK							
7	NIVEAU DE DK	(E) 98,1MHz 1kHz.±40kHz dév SK 5,33% DK 30% BK 60% 60dBμ(Entrée ANT)	Connecter le voltmètre CA à TP1 (X14)	FM 98,1MHz SDK:ON	L1 VR4 (X14)	Maximale	(c)
SECTION MA							
(1)	NIVEAU DE CHERCHER D'ARRET	(D) 999kHz 400Hz. 30% mod 35dBμ(Entrée ANT)	Connecter le voltmètre CC à TP2 (X14)	AM 999kHz	VR3 (X14)	Niveau " L " avec entrée de 35dBμ ou plus.	(d)
SECTION DU MAGNETPHONE							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Lecture bande	Vis d'azimut de tête	Ajuster l'azimut pour que chaque L-CH/R-CH ou FWD/RVS devienne maximum.	(e)
[2]	NIVEAU DE LECTURE	MTT-150	Connecter le voltmètre CA à TP1. (X09)	Lecture bande	VR1(G) VR2(D) (X87)	388mV	(f)

## ABGLEICH

Die Regler und Knöpfe wie folgt einstellen.

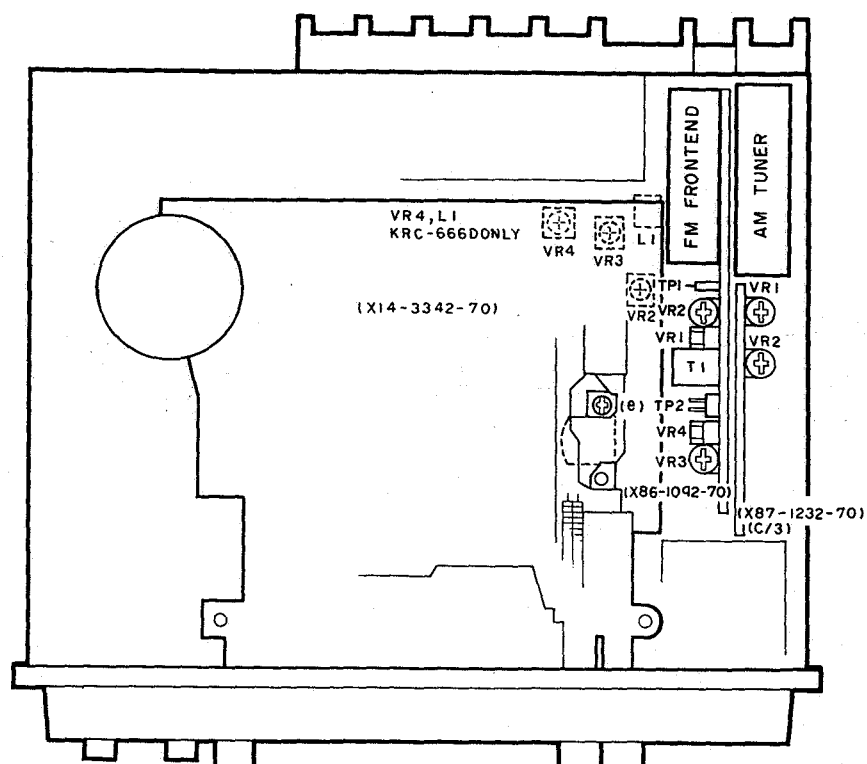
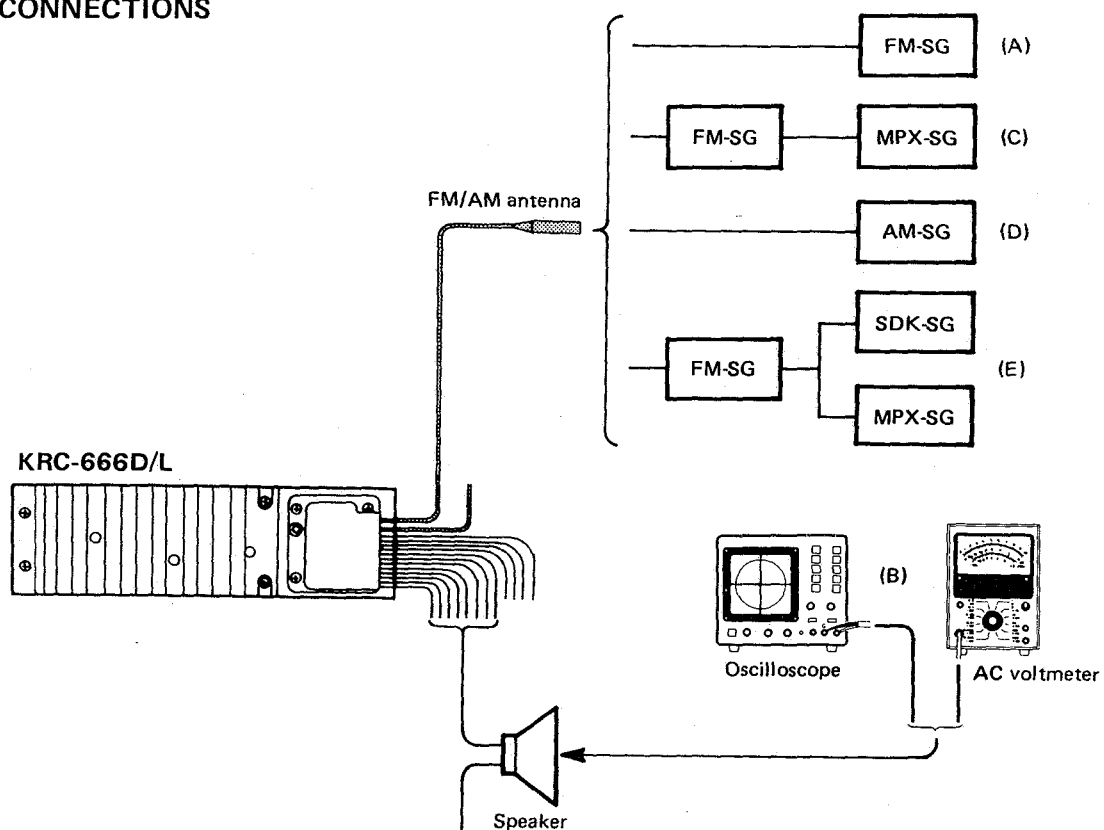
BALANCE :Mittelage      LOUD :OFF      AUTO :OFF  
 FADER :Mittelage      T • ADV :OFF  
 BASS :Mittelage      METAL :OFF  
 TREBLE :Mittelage      DOLBY NR :OFF

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER(RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98,1MHz 0 Hub 60dBμ(ANT-Eingang)	Das Gleichstrom-Voltmeter an TP2 anschließen. (X86)	FM 98,1MHz	T1 (X86)	0V	(a)
2	STEREO KANAL TRENNUNG	(C) 98,1MHz 1kHz.±40kHz Hub Pilot:±6kHz Hub Wahler:L or R 60dBμ(ANT-Eingang)	(B)	FM 98,1MHz	VR4 (X86)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
3	ANRC	(C) 98,1MHz 1kHz.±40kHz Hub Pilot:±6kHz Hub Wahler:L or R 35dBμ(ANT-Eingang)	(B)	FM 98,1MHz	VR1 (X86)	Trennung 10dB	
4	SUCHEN HALT PEGEL	(A) 98,1MHz 1kHz.±40kHz Hub 20dBμ(ANT-Eingang)	Das Gleichstrom-Voltmeter an TP1 anschließen. (X86)	FM SUCHEN:ON 98,1MHz	VR2 (X86)	"H"-Pegel mit Eingang von 20dBμ oder mehr	(b)
5	SOFT MUTE PEGEL	(A) 98,1MHz 1kHz.±40kHz Hub 60dBμ→No Eingang	(B)	FM 98,1MHz	VR3 (X86)	Ausgang Geräusch pegel -25dBμ (Wenn Antenna Stecker Nicht anschließen.)	
6	ANZEIGE INSTRUMENT	(A) 98,1MHz 1kHz.±40kHz Hub 20dBμ(ANT-Eingang)	-	FM 98,1MHz	VR2 (X14)	Eine davon leuchtet bei 20dBμ Eingang.	
SDK-ABTEILUNG							
7	DK PEGEL	(E) 98,1MHz 1kHz.±40kHz Hub SK 5,33% DK 30% BK 60% 60dBμ(ANT-Eingang)	Das Wechselspannungsmesser an TP1 anschließen. (X14)	FM 98,1MHz SDK:ON	L1 VR4 (X14)	Maximale	(c)
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 999kHz 400Hz, 30% mod 35dBμ(ANT-Eingang)	Das Gleichstrom-Voltmeter an TP2 anschließen. (X14)	MW 999kHz	VR3 (X14)	"L"-Pegel mit Eingang von 35dBμ oder mehr	(d)
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	Bandwiedergabe	Kopfazimutschraube	So einstellen, daß das Azimuth für jeweils L-CH/R-CH oder FWD/RVS maximal wird.	(e)
[2]	WIEDERGABE PEGEL	MTT-150	Das Wechselspannungsmesser an TP1 anschließen. (X09)	Bandwiedergabe	VR1(L) VR2(R) (X87)	388mV	(f)

# KRC-666D/L

## ADJUSTMENT/REGLAGE/ABGLEICH

### SYSTEM CONNECTIONS

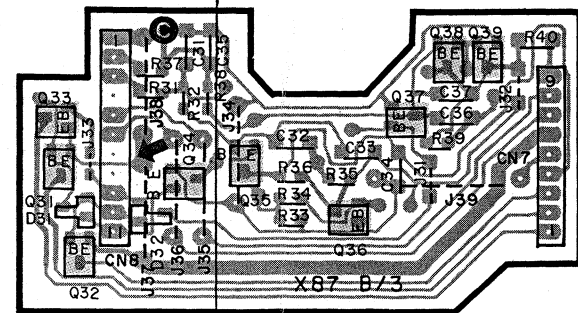
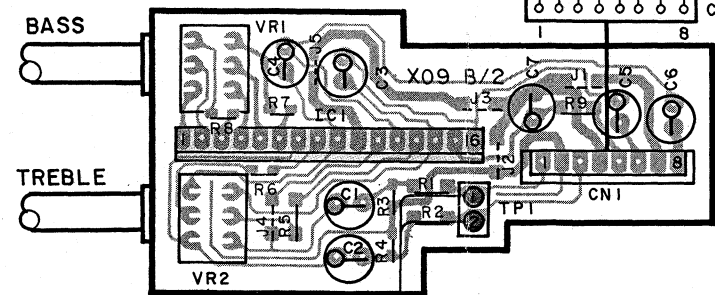
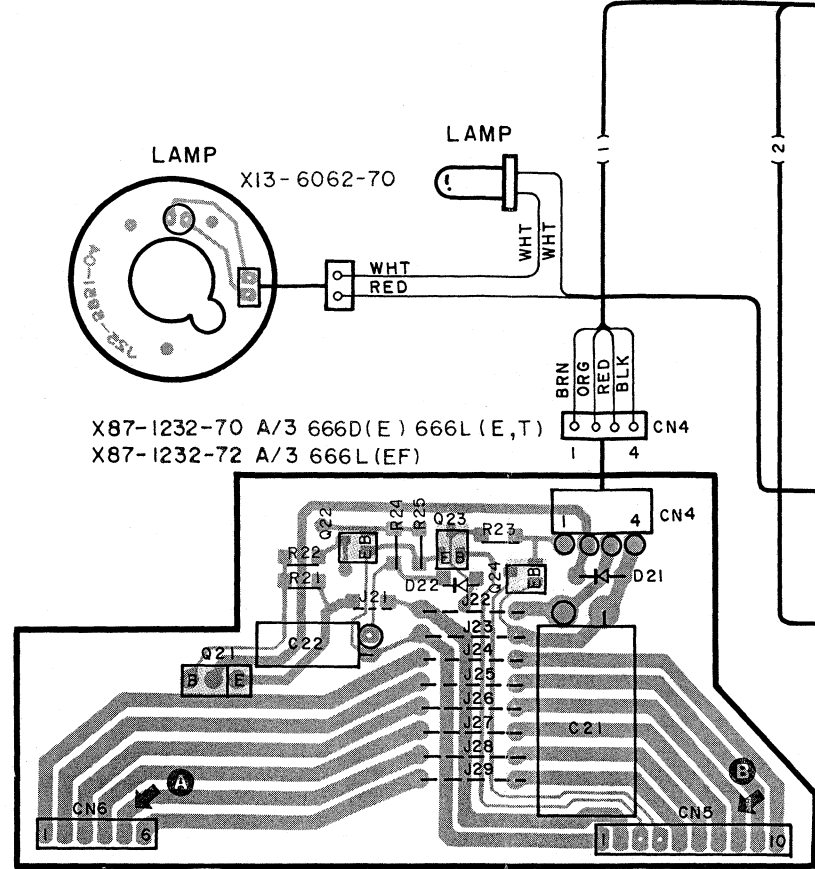
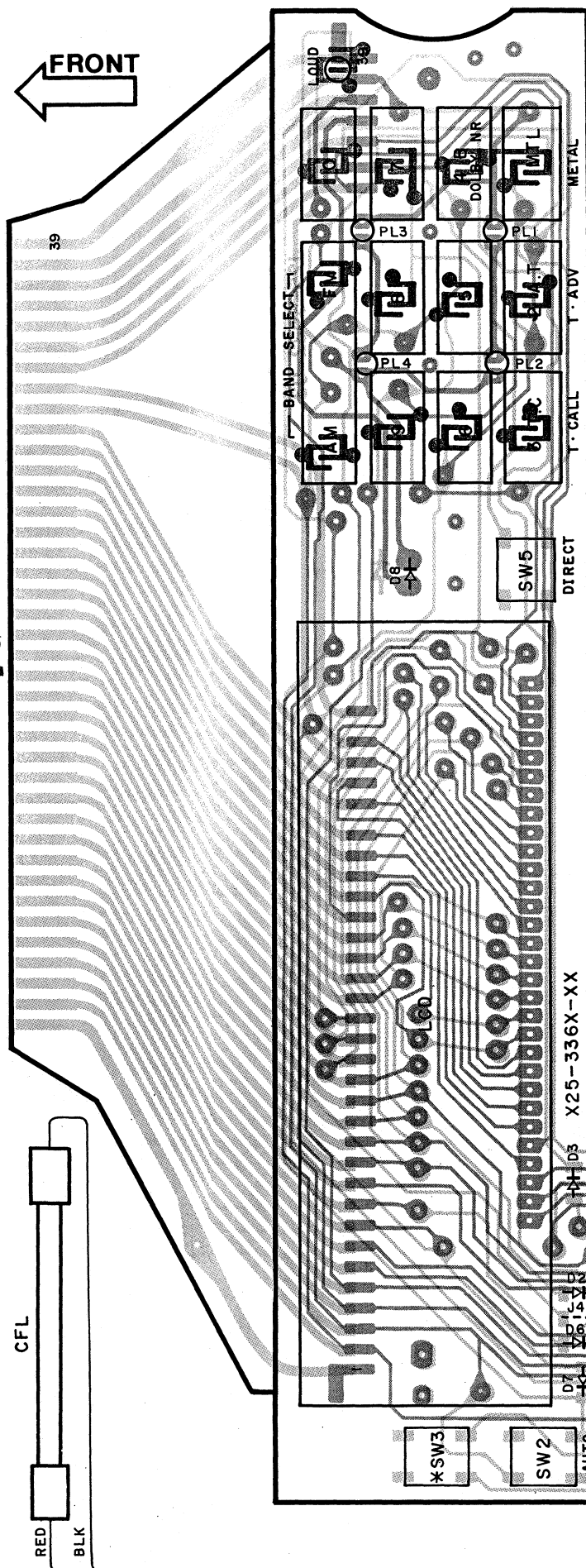


KRC-666D/L



# PC BOARD (Component Side View)

FRONT



(d) SEEK STOP LEVEL  
"L" level with input of  
35 dBμ or more

(f) PLAYBACK LEVEL  
388 mV

INVERTOR  
FOR CFL

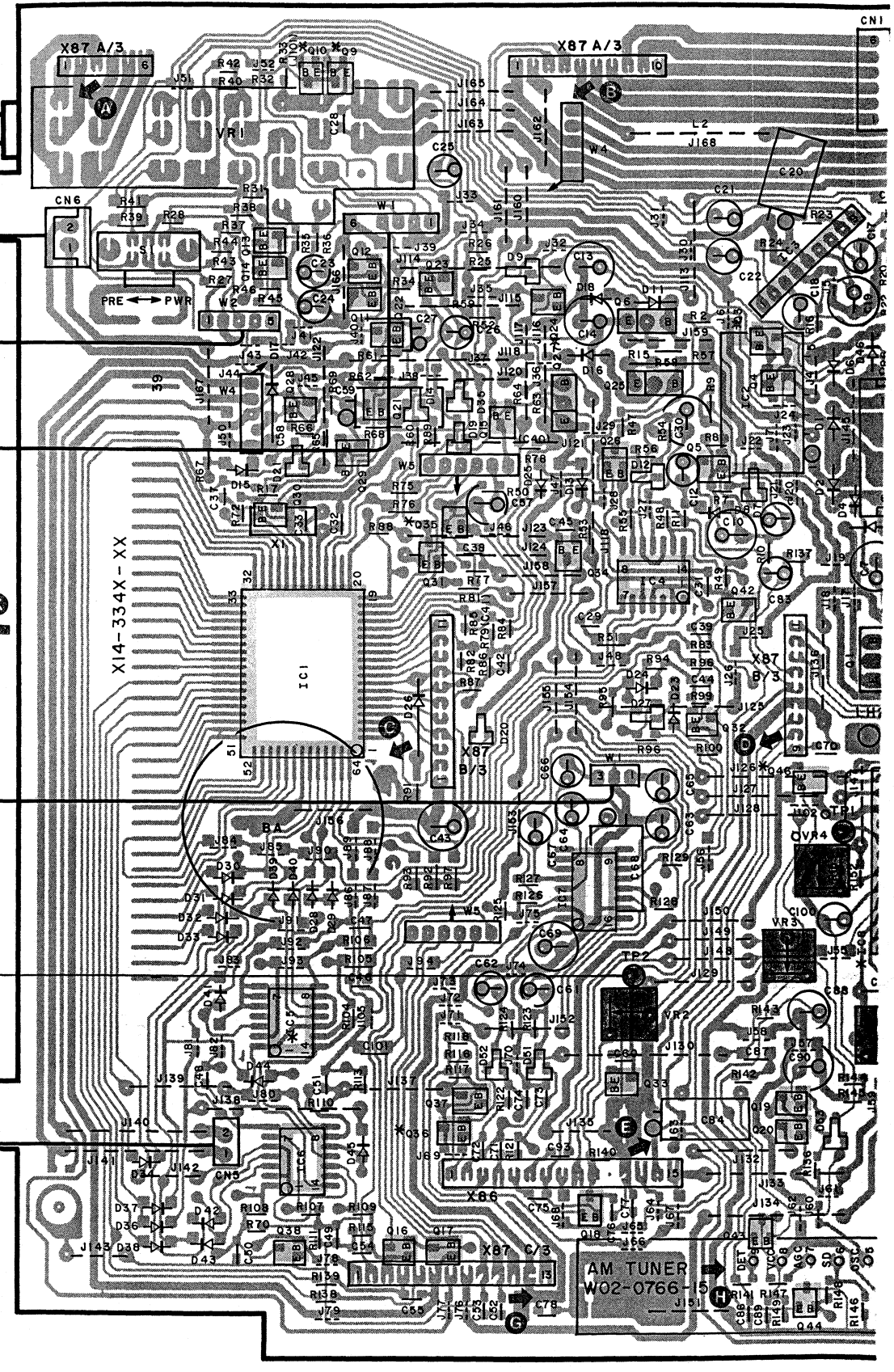
RED BLK  
WHT

X14-334X-XX

DISTINATION	Ref, NO	IC5	IC8	Q3,9,10,24,46	Q35,36
KRC-666D	2-70(E)	YES	YES	YES	NO
KRC-666L	2-72(E,T) 2-74 (EF)	NO	NO	NO	YES

X25-336X-XX

DISTINATION	Ref, NO	IC5	IC8	Q3,9,10,24,46	Q35,36
KRC-666D	2-70(E)	YES	YES	YES	NO
KRC-666L	2-71(E,T,EF)	NO	NO	NO	YES

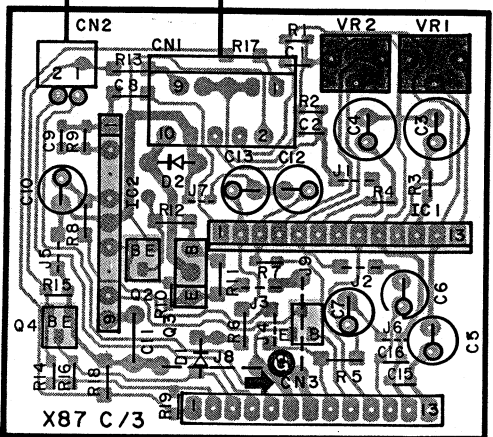
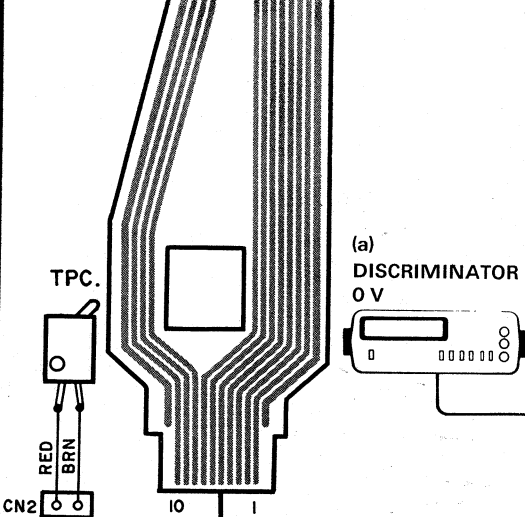
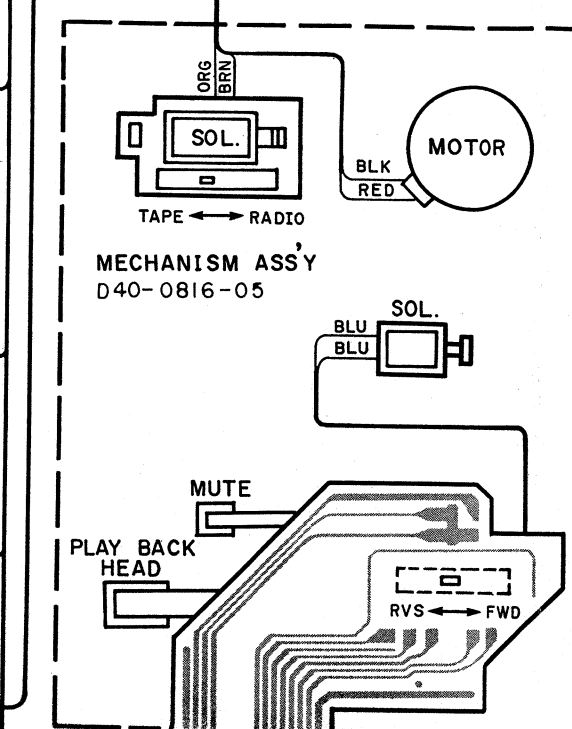
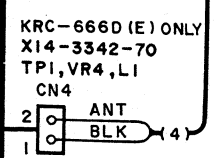
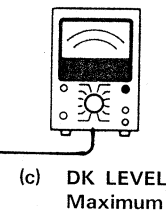
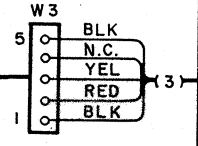
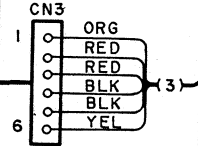
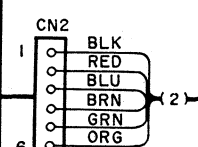
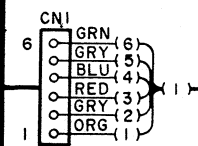
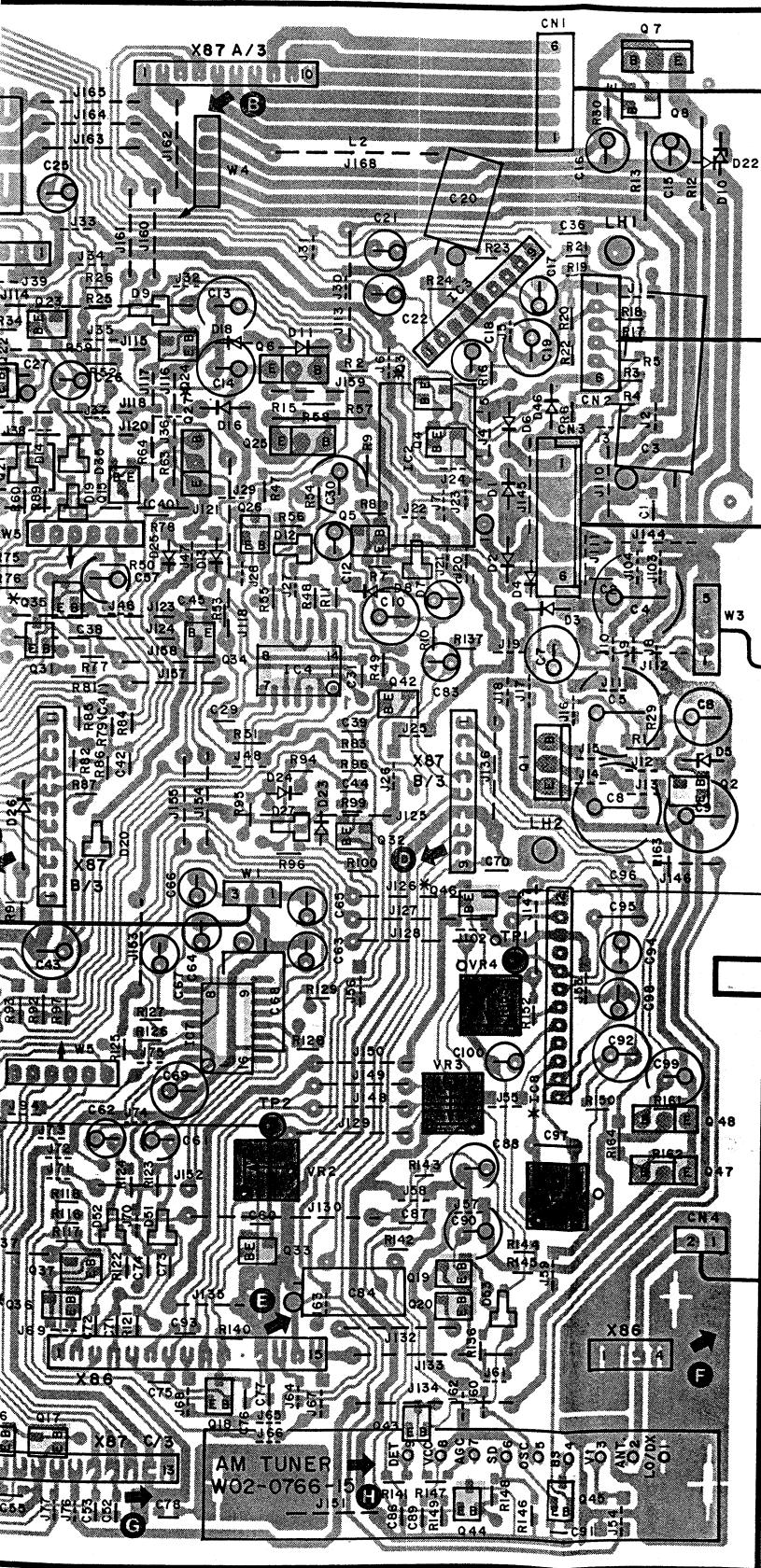




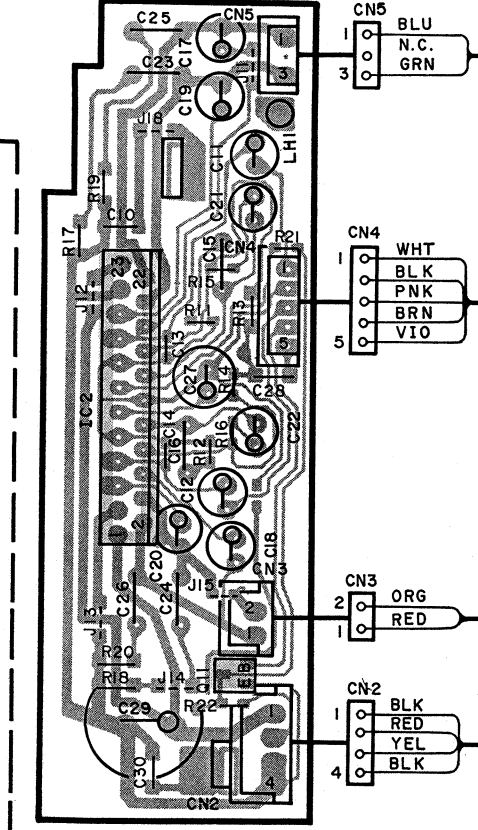
Q3,9,10,24,46	Q35,36
YES	NO
NO	YES

X25-336X-XX

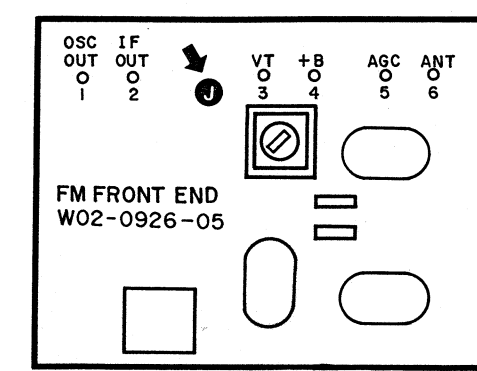
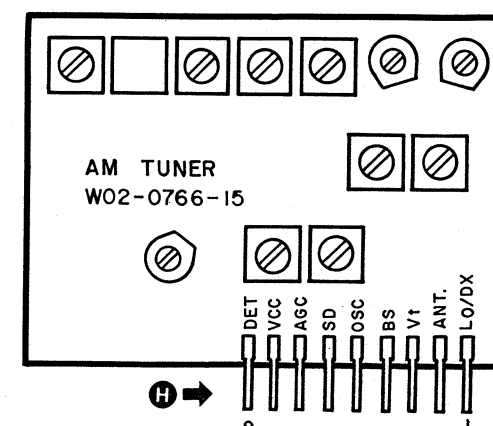
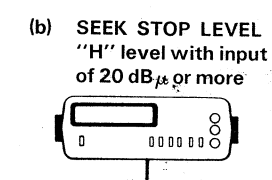
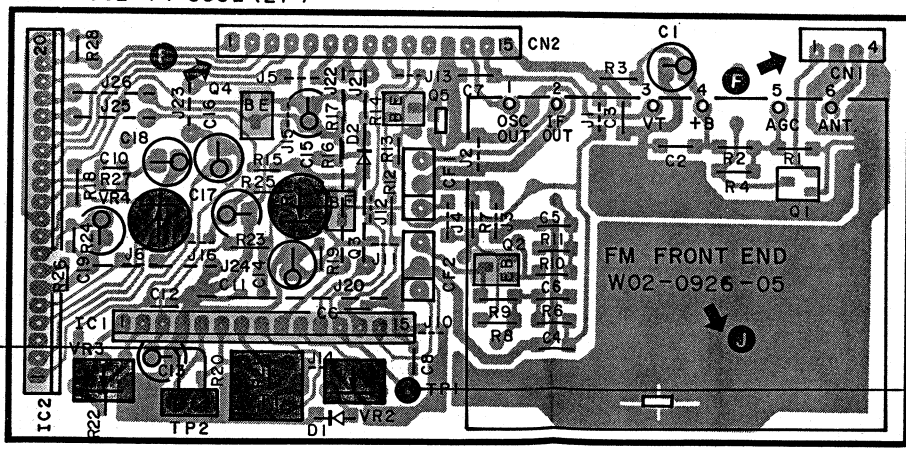
DISTINATION	Ref. NO	J1	J2,3	SW3
KRC-666D	2-70(E)	NO	YES	SDK
KRC-666L	2-71(E,T,EF)	YES	NO	MONO



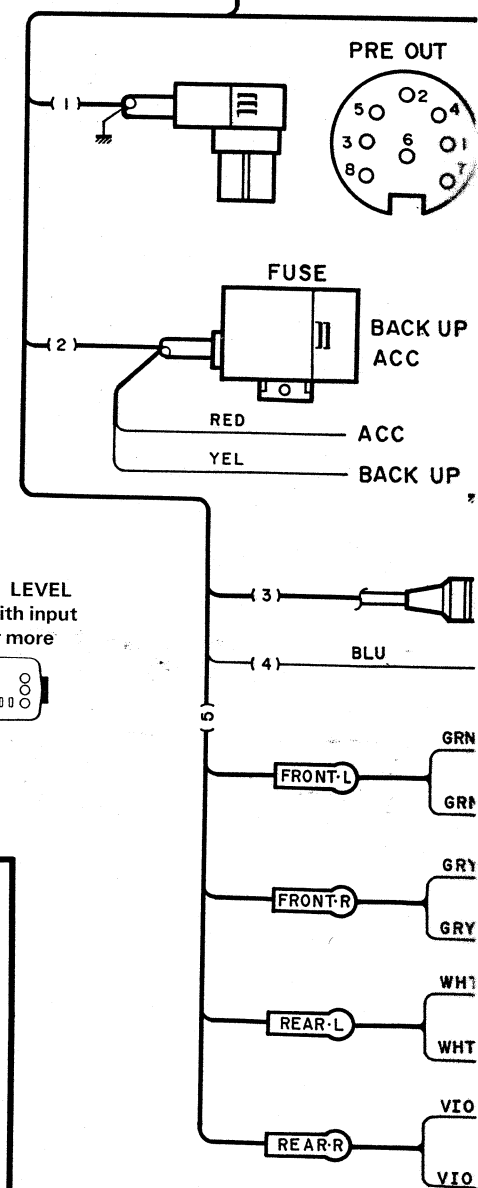
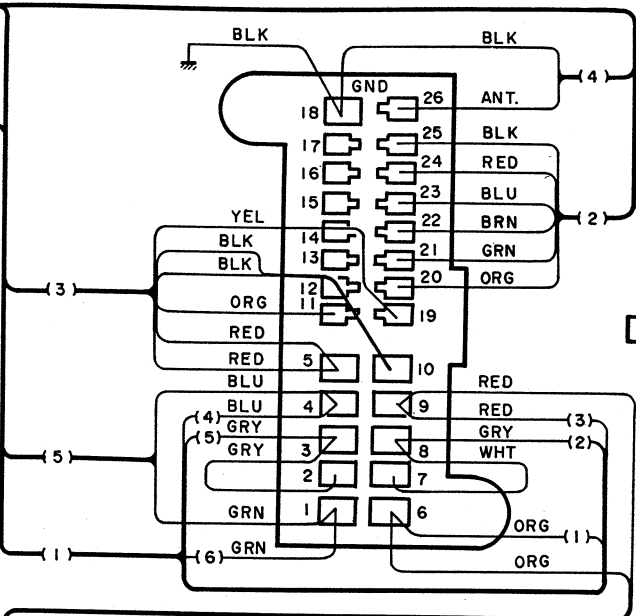
X09-2672-70 A/2 666D(E) 666L(E,T)  
X09-2670-72 A/2 666L(EF)



X86-1092-70 666D(E) 666L(E,T)  
X86-1092-71 666L(EF)

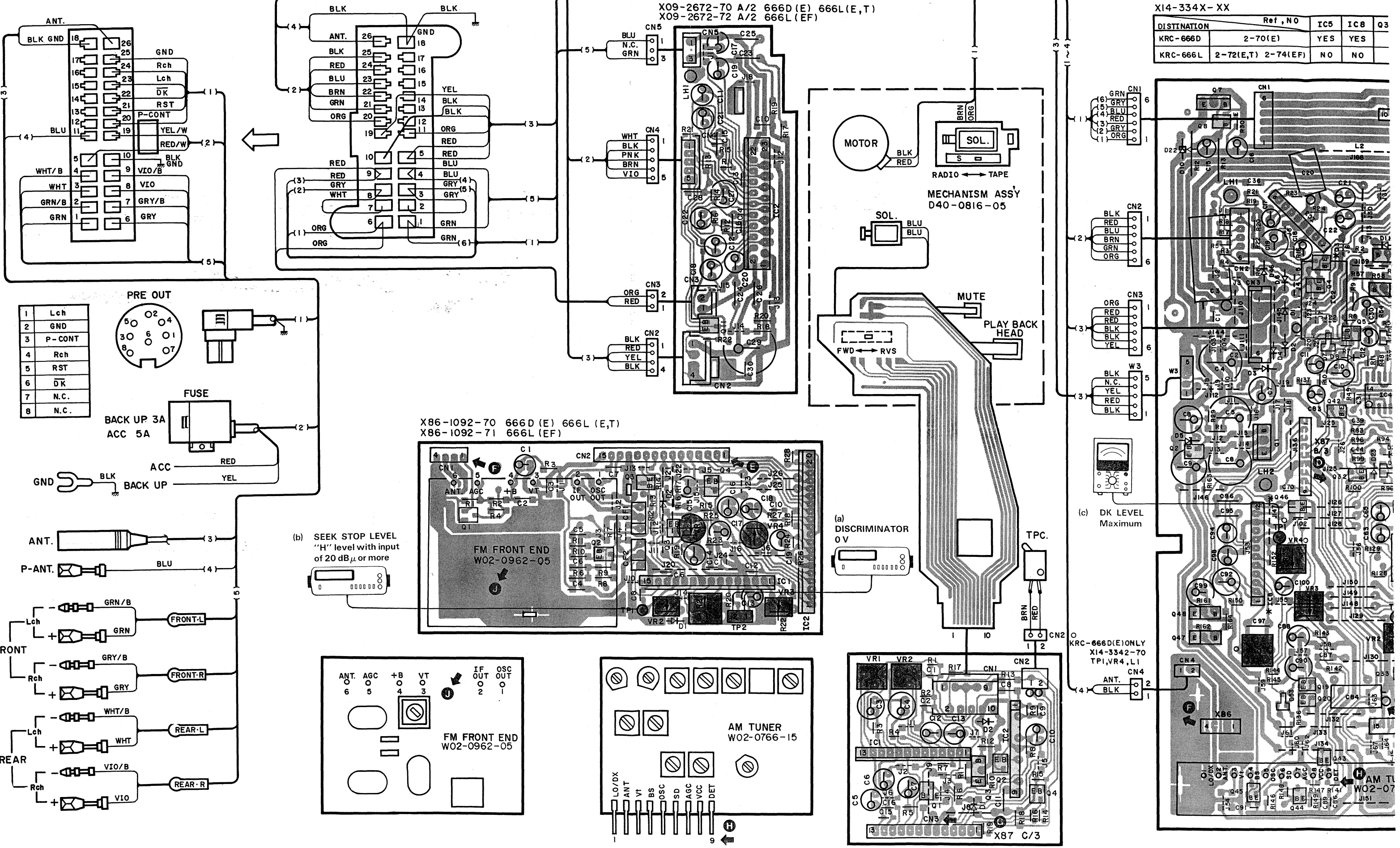


Refer to the schematic diagram for the values of resistors and capacitors.



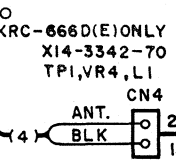
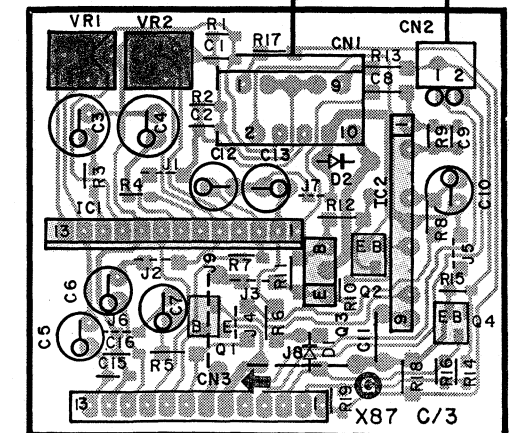
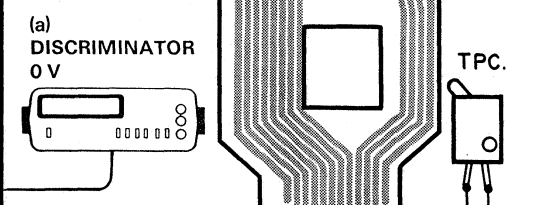
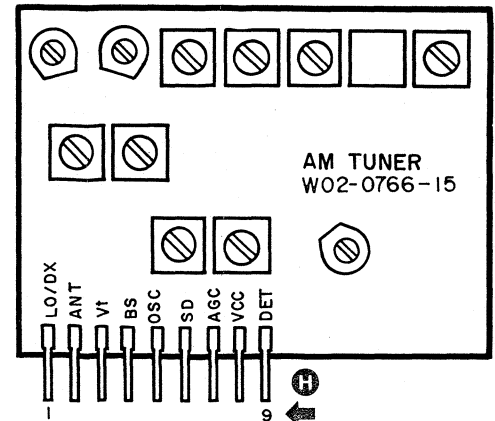
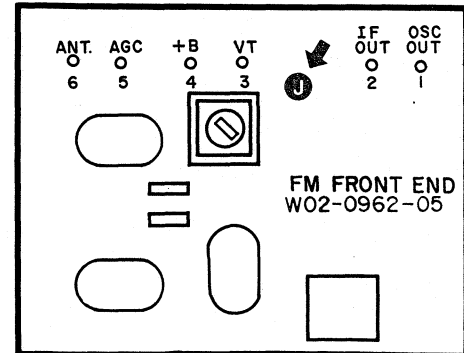
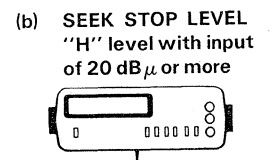
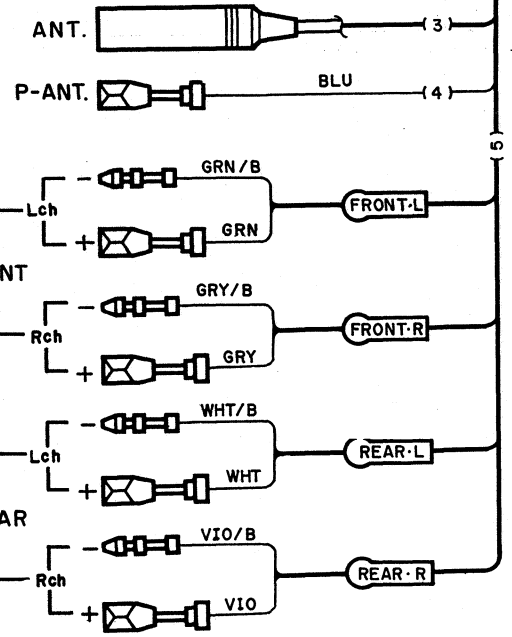
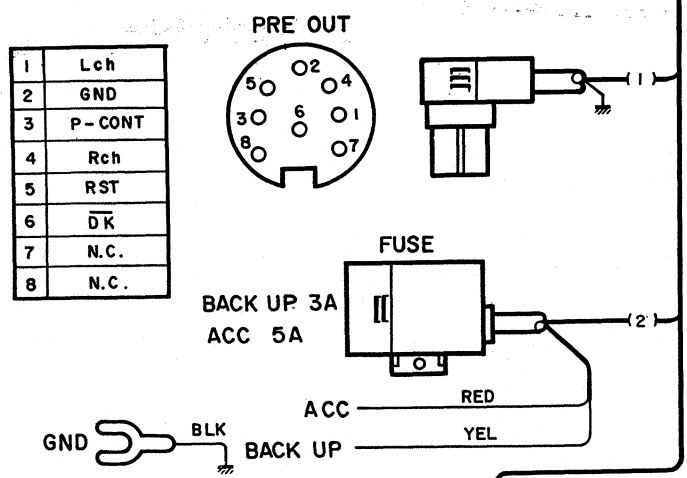
KRC-666D (E)  
KRC-666L (E,T,E)

PC BOARD (Foil Side View)



X14-334X-XX

DISTINATION	Ref, NO	IC5	IC8	Q3
KRC-666D	2-70(E)	YES	YES	
KRC-666L	2-72(E,T) 2-74(EF)	NO	NO	

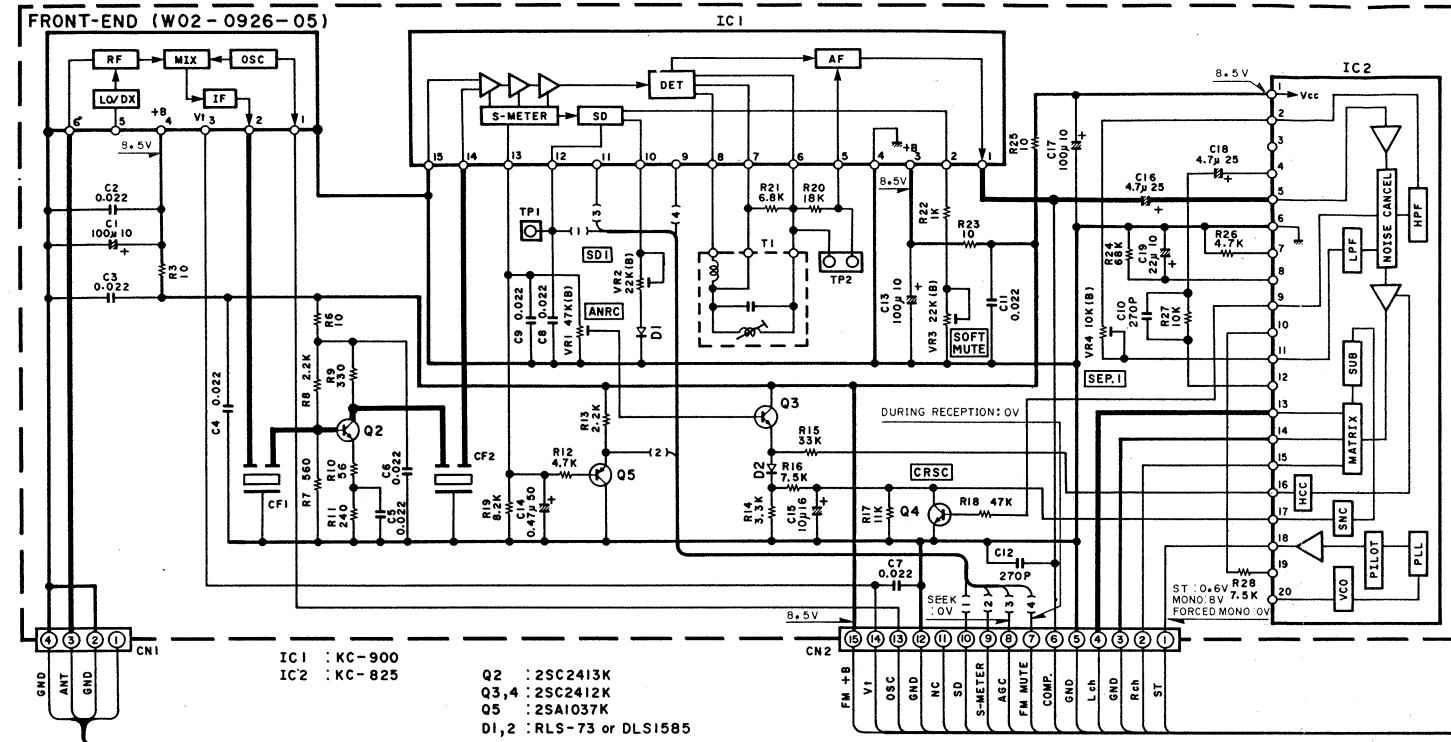








(X86-1092-70) 666D(E) / 666L(E,T)  
(X86-1092-71) 666L(EF)

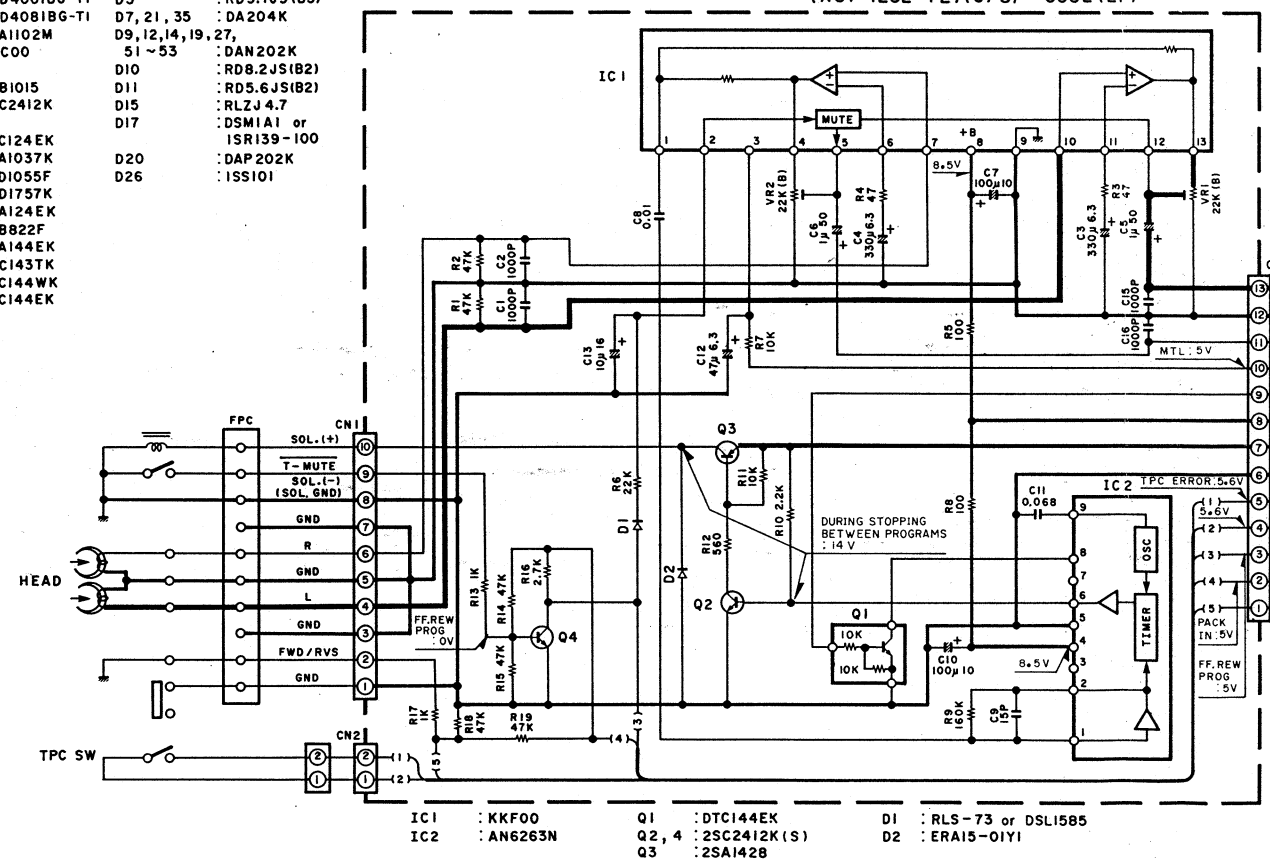


(X14-334X-XX)

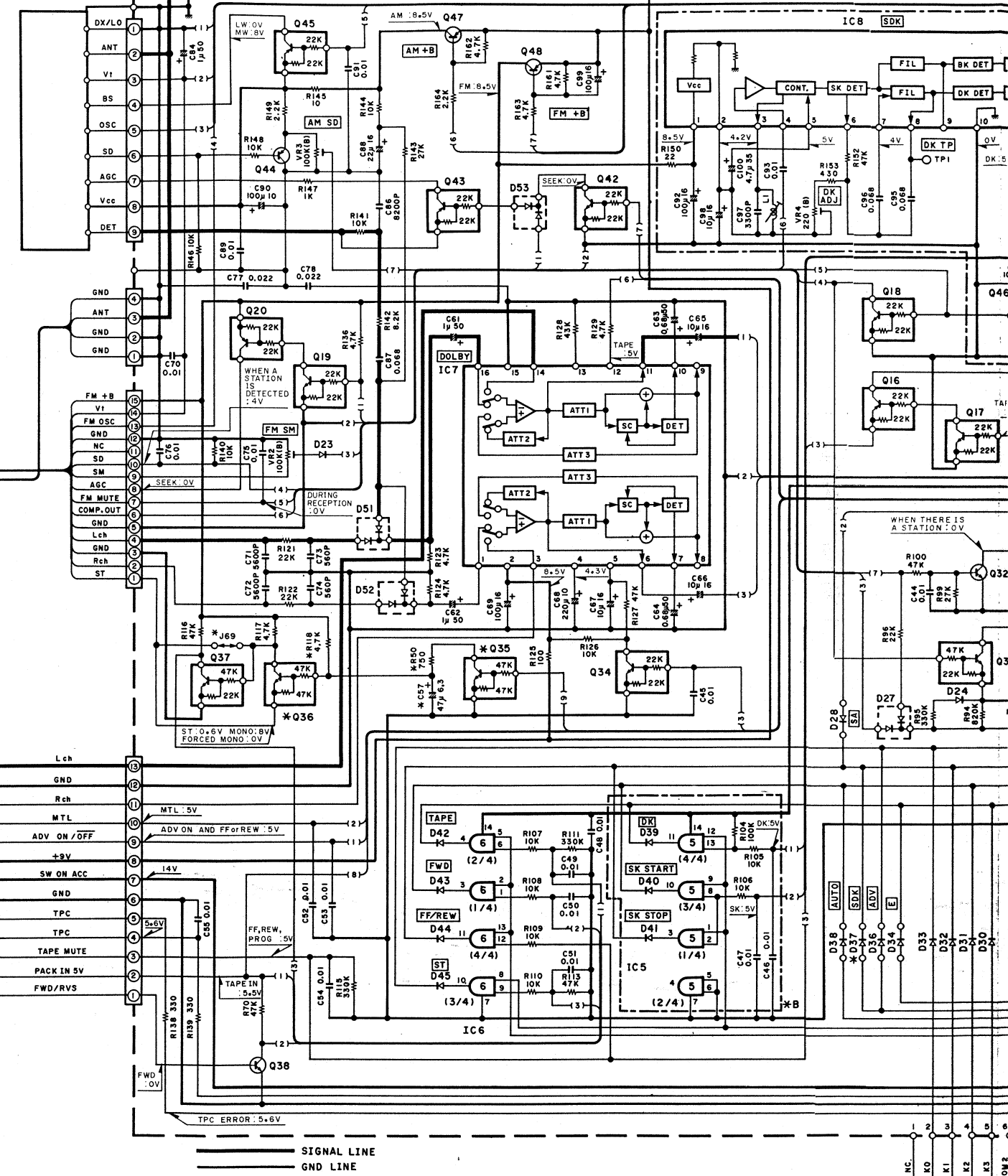
IC1: µPD719G-551-II  
IC2: KKQ00  
IC3: KKQ00  
IC4: µPD40018G-T1  
IC5, 6: µPD40018G-T1  
IC7: CXA1102M  
IC8: KKQ00

Q1, 7: 2SB1015  
Q2, 8, 26, 32, 38: 2SC2412K  
Q3, 4, 17~19, 21, 24, 26, 34, 42, 46: DTC124EK  
Q5, 22, 23, 44: 2SA1037K  
Q6: 2SD1055F  
Q9~14: 2SD1757K  
Q15, 16, 20, 43, 45: DTA124EK  
Q25, 27, 47, 48: 2SB822F  
Q29, 31: DTA144EK  
Q30: DTC143TK  
Q33, 37: DTC144WK  
Q35, 36: DTC144EK

D1~3, 6, 16: ERA15-01Y1  
D4, 8, 13, 18, 22~25, 28, 30~34, 36~45: RLS-73 or DLS1585  
D5: RD9.1JS(B3)  
D7, 21, 35: DA204K  
D9, 12, 14, 19, 27, 51~53: DAN202K  
D10: RD8.2JS(B2)  
D11: RD5.6JS(B2)  
D15: RLZ14.7  
D17: DSM1A1 or ISR139-100  
D20: DAP202K  
D26: ISS101



**AM TUNER (W02-0766-15)**



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Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis. La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories. Le système de réduction du bruit de fond est fabriqué sous licence des Dolby Laboratories.

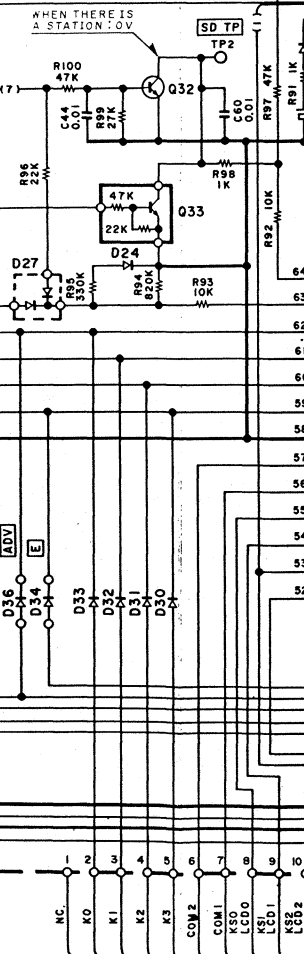
Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten. DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories. Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

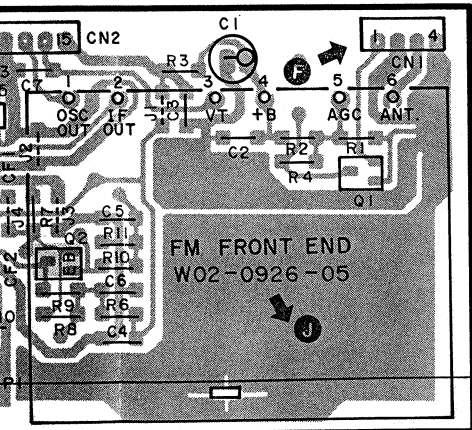
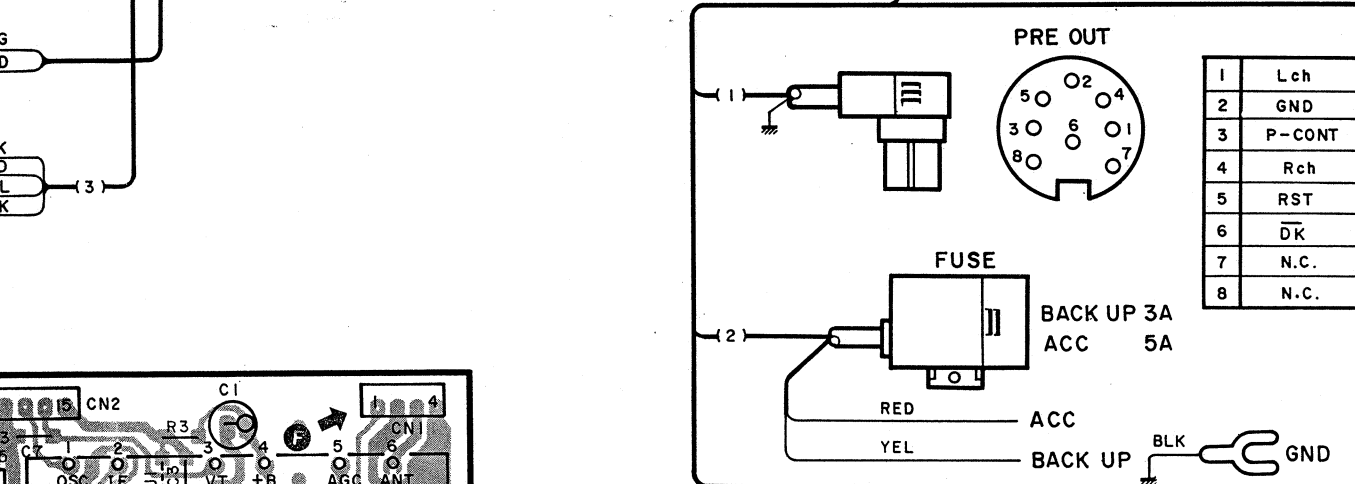
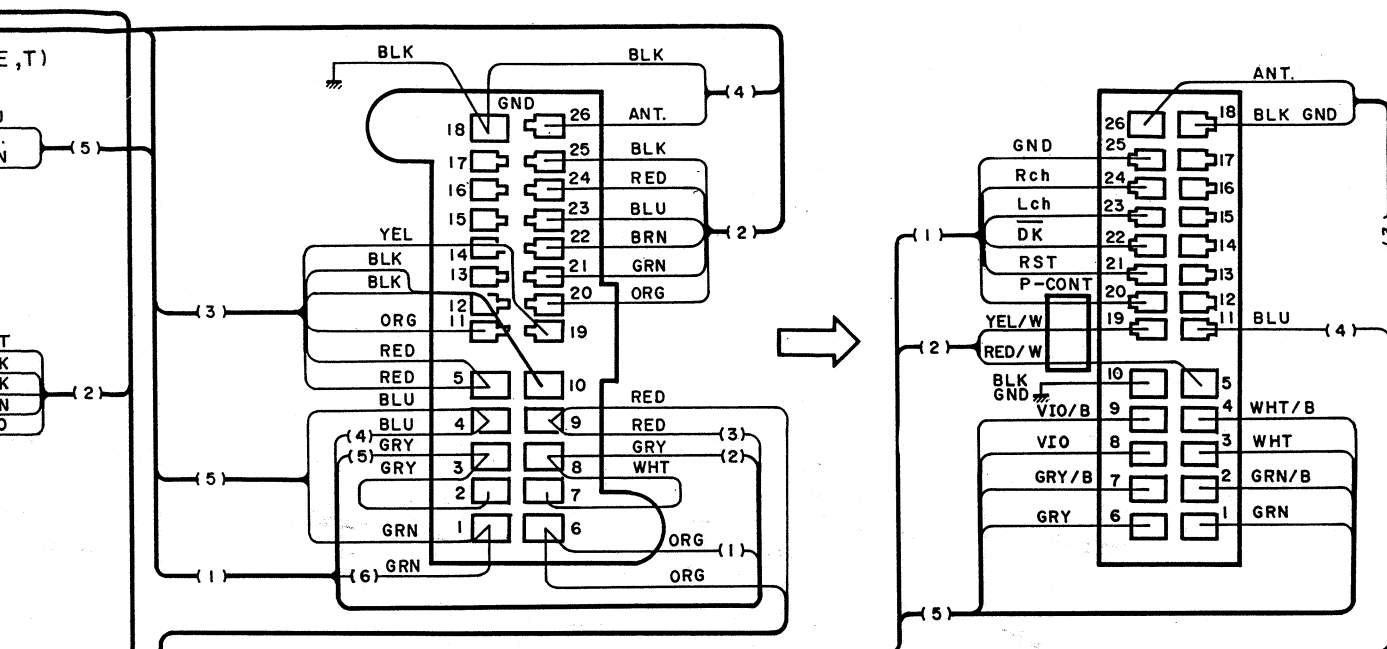
• Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

• Die angegebenen Gleichspannungen sind mit einem hochohmigen Voltmeter zu messen. Die Meßwerte können sich aufgrund von individuellen Instrumenten oder Geräten unterscheiden.

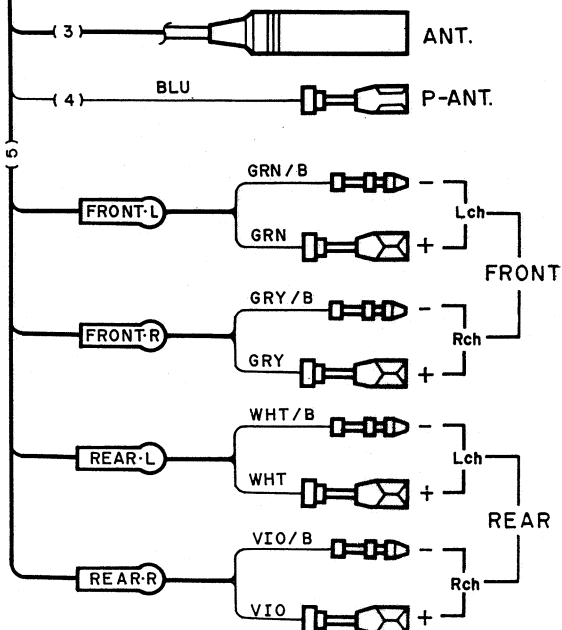
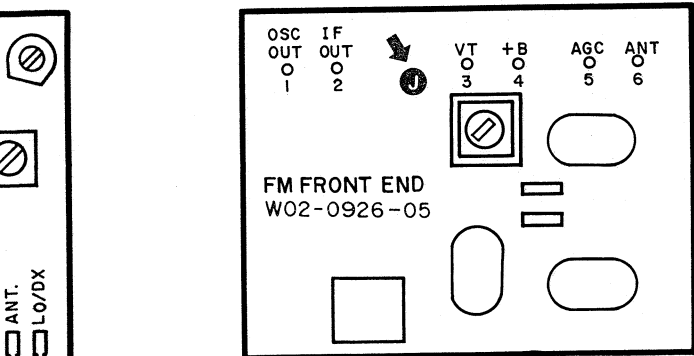
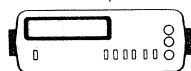
[illegible]

KRC-666D/L(E) (1/2)

**KRC-666D/L**  
**KENWOOD**

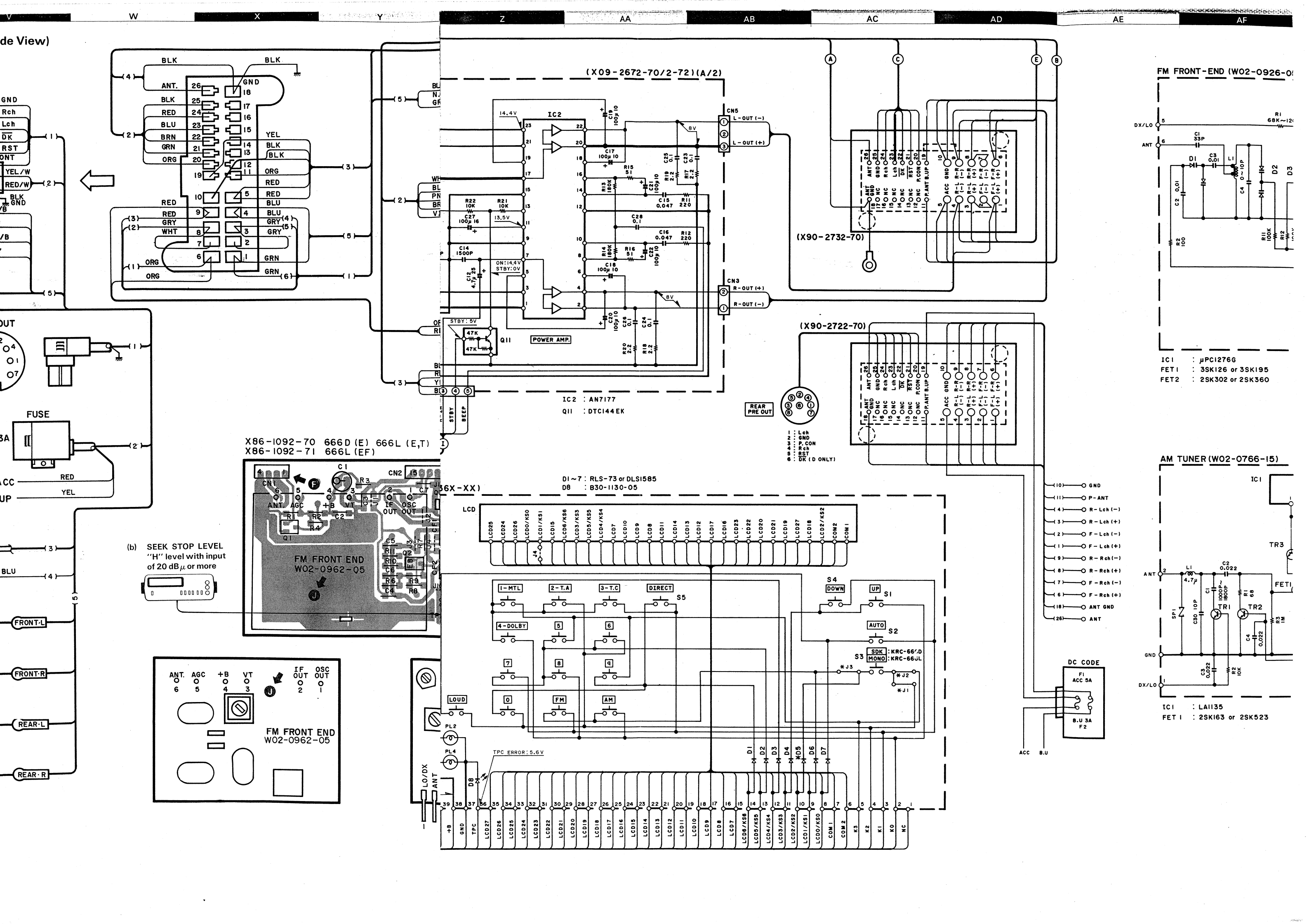


(b) SEEK STOP LEVEL  
"H" level with input  
of 20 dB $\mu$  or more



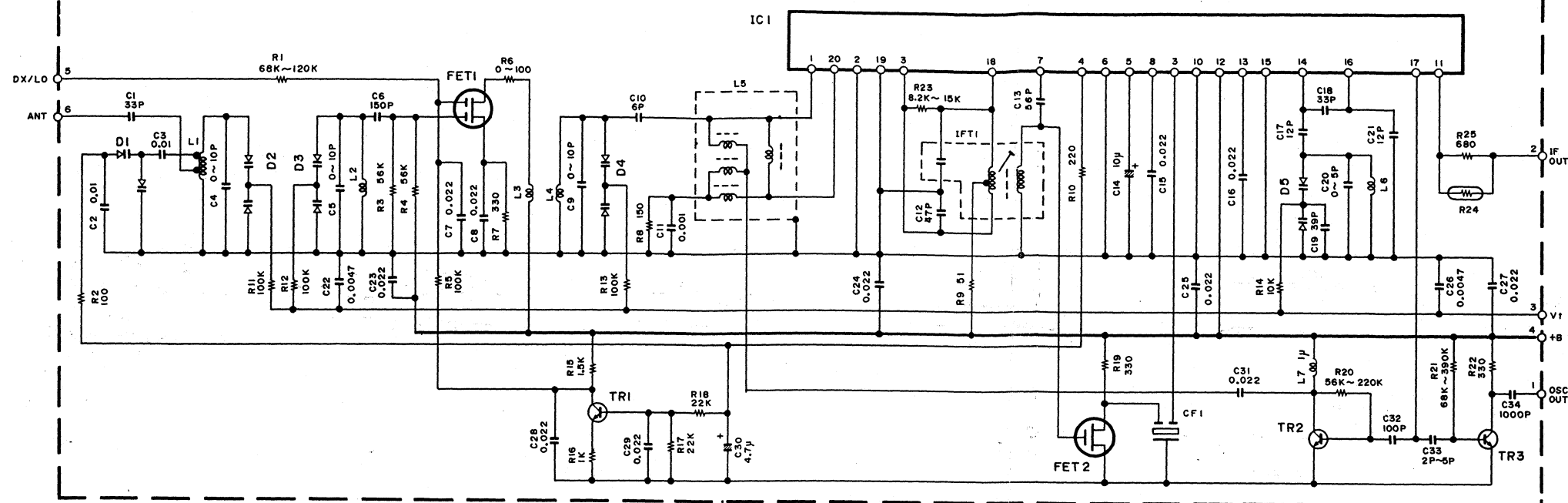
KRC-666D (E)  
KRC-666L (E,T,EF)

Refer to the schematic diagram for the values of resistors and capacitors.



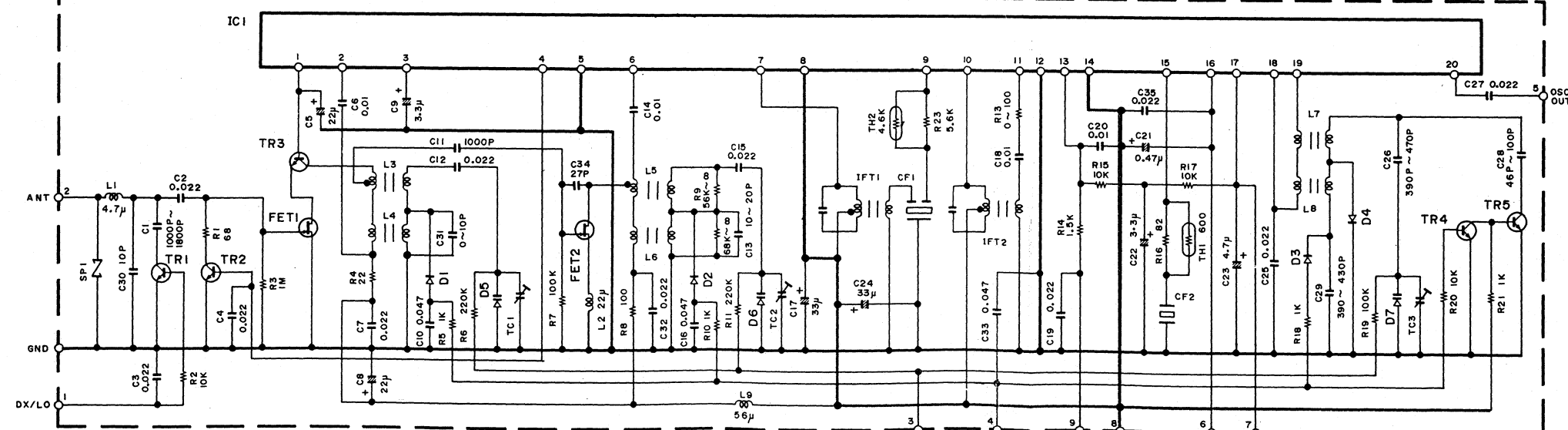


# FM FRONT-END (W02-0926-05)



- IC1 :  $\mu$ PC1276G  
FET1 : 3SK126 or 3SK195  
FET2 : 2SK302 or 2SK360  
TR1 : 2SC2712  
TR2 : 2SC2714  
TR3 : 2SC2715 or 2SC2714  
D1 : ISV172 or HVM14S  
D2 ~ 5 : SVC212, HVM55 or ISV225

# AM TUNER (W02-0766-15)



- IC1 : LA1135  
FET1 : 2SK163 or 2SK523  
TR1 ~ 3 : 2SC2814, 2SC2716 or 2SC2619  
D1 ~ 3 : SVC321 or ISV149

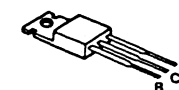
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

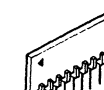
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

KRC-666D/L (E) (2/2)

2SB1015



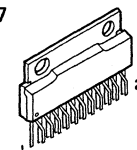
KKM00



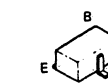
DTC143TK  
2SA1428  
2SB822F  
2SD1055F



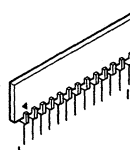
AN7177



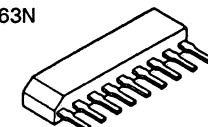
DTA124EK  
DTA144EK  
DTC124EK  
DTC144EK  
DTC144WK  
2SA1037K  
2SC2412K  
2SC2413K  
2SD1757K



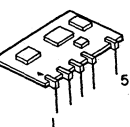
KKF00



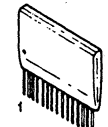
AN6263N



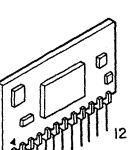
KKQ00



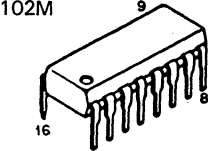
KC-900



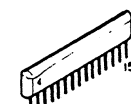
KKC00



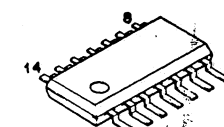
CXA1102M



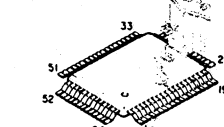
KC-819



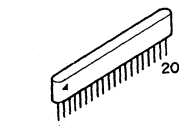
UPD4001BG-T1  
UPD4081BG-T1



UPD1719G-551-11



KC-825



**KRC-666D/L**  
KENWOOD



□



## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KRC-666D/L						
201	1C	*	A01-1563-21	METALLIC CABINET	E E1T EF	
202	3C	*	A20-5551-02	PANEL ASSY		
202	3C	*	A20-5552-02	PANEL ASSY		
203	1D	*	A52-0106-23	TOP PLATE		
204	2C	*	A53-1040-03	CASSETTE LID		
-			B46-0100-10	WARRANTY CARD	EE1T EF EE1T	
-		*	B50-9036-00	INSTRUCTION MANUAL		
-		*	B50-9038-00	INSTRUCTION MANUAL		
-			B58-0803-13	CAUTION CARD (FTZ)		
-			B58-0854-14	CAUTION CARD (BTL)		
-			B58-0883-04	CAUTION CARD	E E1T EF	
-			B58-0887-04	CAUTION CARD		
208	1C, 1D		D10-1318-04	LEVER		
209	1D	*	D40-0816-05	CASSETTE MECHANISM ASSY		
213	2D	*	F01-1233-03	HEAT SINK		
F1	1C		F06-5024-05	FUSE (5A) ACC		
F2	1C		F06-3026-05	FUSE (3A) BACK UP		
217	2D		G01-2040-04	EXTENSION SPRING		
218	2C		G01-2044-04	TORSION COIL SPRING		
-		*	H01-7921-04	ITEM CARTON CASE		
-		*	H01-7922-04	ITEM CARTON CASE	E E1T EF	
-		*	H01-7932-04	ITEM CARTON CASE		
-			H10-3444-03	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3445-13	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
223	3C	*	J31-0812-24	COLLAR		
224	1C		J54-0059-04	STAY		
-			J61-0067-05	WIRE BAND		
228	3C	*	K01-0084-23	HANDLE		
229	3C	*	K27-1899-03	KNOB (BUTTON) ON/OFF		
230	2C	*	K27-1900-03	KNOB (BUTTON) FADER		
231	2C		K27-1902-04	KNOB (BUTTON) B/T		
232	1C		K27-1903-04	KNOB (BUTTON) EJECT		
233	1D		K27-1904-04	KNOB (BUTTON) FF		
234	1D		K27-1905-04	KNOB (BUTTON) REW		
247	1C		N99-0099-05	SCREW SET		
C	3D		N09-1635-05	TAPTITE SCREW (2X5)		
D	2C		N09-1847-05	EVATITE SCREW (2.6X10)		
E	1D, 2D		N09-1887-05	TAPTITE SCREW		
J	2D	*	N09-2582-05	TAPTITE SCREW (2.6X20)		
M	1C		N09-1848-05	STEPPED SCREW		
P	3D		N09-1702-05	TAPTITE SCREW (M2.6X5)		
Q	2D		N09-1296-05	MACHINE SCREW (M1.7X6)		
S	1D		N09-1415-05	MACHINE SCREW (M2.6X2.8)		
S1	3D		S46-1076-05	LEAF SWITCH		
BA1	3D		W09-0064-05	BATTERY		
248	1C	*	X90-2722-70	COMPOUND ASSY UNIT		

E: Scandinavia & Europe K: USA P: Canada  
 U: PX(Far East, Hawaii) T: England M: Other Areas  
 UE: AAFES(Europe) X: Australia

E: KRC-666D  
 E1, T, EF: KRC-666L

△ indicates safety critical components.



## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
249	1D	*	X90-2732-70	COMPOUND ASSY UNIT	EE1T	
249	1D	*	X90-2732-71	COMPOUND ASSY UNIT	EF	
<b>AUDIO UNIT (X09-2672-70: E, T, 2-72: EF)</b>						
C1 -6			CE04DW1E4R7M	ELECTR0 4.7UF 25WV		
C7			CE04DW1A101M	ELECTR0 100UF 10WV		
C11 ,12			CE04DW1E4R7M	ELECTR0 4.7UF 25WV		
C13 ,14			CK73FB1H152K	CHIP C 1500PF K		
C15 ,16			CF92FV1H473J	MF 0.047UF J		
C17 -22			CE04DW1A101M	ELECTR0 100UF 10WV		
C23 -26			CF92FV1H104J	MF 0.10UF J		
C27			CE04DW1C101M	ELECTR0 100UF 16WV		
C28			CK73EB1E104K	CHIP C 0.10UF K		
C29			C90-1404-05	ELECTR0 2200UF 16WV		
C30			CK41DY1C103M	CYLND CHIP C 0.010UF M		
LH1			J19-2826-05	HOLDER		
J1 -4			R92-0338-05	CLYND CHIP R 0 0HM		
J5			R92-0670-05	CHIP R 0 0HM		
J11 -14			R92-0338-05	CLYND CHIP R 0 0HM		
J15 ,16			R92-0670-05	CHIP R 0 0HM		
R1 ,2			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R3 ,4			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R5			RD41DB2B102J	CYLND CHIP R 1.0K J 1/8W		
R6			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R7 ,8			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R9			RD41DB2B101J	CYLND CHIP R 100 J 1/8W		
R11 ,12			RK73FB2A221J	CHIP R 220 J 1/10W		
R13 ,14			RK73FB2A184J	CHIP R 180K J 1/10W		
R15 ,16			RK73FB2A510J	CHIP R 51 J 1/10W		
R17 -20			RD41DB2B2R2J	CYLND CHIP R 2.2 J 1/8W		
R21 ,22			RK73FB2A103J	CHIP R 10K J 1/10W		
VR1 ,2	2C,2D		R10-4031-05	POTENTIOMETER (BASS/TREBLE)		
IC1			KC-819	IC(TONE AMP X2)		
IC2			AN7177	IC(POWER AMP X4)		
Q11			DTC144EK	DIGITAL TRANSISTOR		
<b>SUB-CIRCUIT UNIT (X13-6062-70)</b>						
PL1	2C		B30-1233-05	LAMP		
PL2	2C	*	B30-1234-05	LAMP (WITH CONNECTOR)		
W	2C		N09-1472-05	TAPTITE SCREW (1.7X5)		
<b>SYNTHESIZER UNIT (X14-3342-70: E, 2-72: E1, T, 2-74: EF)</b>						
C1 ,2			CK73FB1H103K	CHIP C 0.010UF K		
C3 -6			CE04DW1C102M	ELECTR0 1000UF 16WV		
C7			C90-1263-05	ELECTR0 100UF 16WV		
C8			CE04DW1A221M	ELECTR0 220UF 10WV		
C9			CE04DW1A471M	ELECTR0 470UF 10WV		
C10			C90-1263-05	ELECTR0 100UF 16WV		
C11 ,12			C90-0824-05	ELECTR0 1UF 50WV		
C13 ,14			C90-1263-05	ELECTR0 100UF 16WV		
C15			C90-0478-05	ELECTR0 10UF 16WV		
C16			CE04DW1A221M	ELECTR0 220UF 10WV		
C17 ,18		*	CE04MW1A220M	ELECTR0 22UF 10WV		
C19			C90-1263-05	ELECTR0 100UF 16WV		

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C20			CE04DW0J331M	ELECTR0 330UF 6.3WV		
C21 ,22			CE04MW1C100M	ELECTR0 10UF 16WV		
C23 ,24			C90-0506-05	ELECTR0 0.22UF 50WV		
C25			C90-0494-05	ELECTR0 22UF 6.3WV	D	
C26			CE04CW0J220M	ELECTR0 22UF 6.3WV		
C27			C90-0508-05	ELECTR0 2.2UF 50WV		
C28			CK73FB1H223K	CHIP C 0.022UF K		
C29			CK73FB1H103K	CHIP C 0.010UF K		
C30			C90-1263-05	ELECTR0 100UF 16WV		
C31			CK73FB1H103K	CHIP C 0.010UF K		
C32			CC73FCH1H200J	CHIP C 20PF J		
C33			CC73FCH1H180J	CHIP C 18PF J		
C36			CK73EB1H473K	CHIP C 0.047UF K		
C37 -39			CK73FB1H103K	CHIP C 0.010UF K		
C40			CK73FB1H103K	CHIP C 0.010UF K	D	
C41			CK73FB1H103K	CHIP C 0.010UF K	L	
C42			CK73FB1H103K	CHIP C 0.010UF K	D	
C43			C90-1263-05	ELECTR0 100UF 16WV		
C44 ,45			CK73FB1H103K	CHIP C 0.010UF K		
C46 ,47			CK73FB1H103K	CHIP C 0.010UF K	D	
C48 -55			CK73FB1H103K	CHIP C 0.010UF K		
C57			C90-0495-05	ELECTR0 47UF 6.3WV	L	
C58			C92-0005-05	CHIP-TAN 2.2UF 6.3WV		
C59			CE04DW1E4R7M	ELECTR0 4.7UF 25WV		
C60			CK73FB1H103K	CHIP C 0.010UF K		
C61 ,62			CE04MW1H010M	ELECTR0 1.0UF 50WV		
C63 ,64			C90-1245-05	ELECTR0 0.68UF 50WV		
C65 ,66			CE04MW1C100M	ELECTR0 10UF 16WV		
C67			C90-0478-05	ELECTR0 10UF 16WV		
C68			CE04DW1A221M	ELECTR0 220UF 10WV		
C69			C90-1263-05	ELECTR0 100UF 16WV		
C70			CK73FB1H103K	CHIP C 0.010UF K		
C71 ,72			CK73FB1H562K	CHIP C 5600PF K		
C73 ,74			CK73FB1H561K	CHIP C 560PF K		
C75 ,76			CK73FB1H103K	CHIP C 0.010UF K		
C77 ,78			CK73FB1H223K	CHIP C 0.022UF K		
C83			C90-0831-05	ELECTR0 33UF 10WV		
C84			CE04DW1H010M	ELECTR0 1.0UF 50WV		
C86			CK73FB1H822K	CHIP C 8200PF K		
C87			CK73EB1E683K	CHIP C 0.068UF K		
C88			CE04CW1C220M	ELECTR0 22UF 16WV		
C89			CK73FB1H103K	CHIP C 0.010UF K		
C90			CE04CW1A101M	ELECTR0 100UF 10WV		
C91			CK73FB1H103K	CHIP C 0.010UF K		
C92			C90-1263-05	ELECTR0 100UF 16WV	D	
C93			CK73FB1H103K	CHIP C 0.010UF K	D	
C94			C90-0478-05	ELECTR0 10UF 16WV	D	
C95 ,96			CF92FV1H683J	MF 0.068UF J	D	
C97			CQ93HP2A332J	MYLAR 3300PF J	D	
C98			C90-0478-05	ELECTR0 10UF 16WV	D	
C99			C90-1263-05	ELECTR0 100UF 16WV		
C100		*	CE04CW1V4R7M	ELECTR0 4.7UF 35WV		
C101			CK73EB1H223K	CHIP C 0.022UF K		
LH1 ,2			J19-2826-05	HOLDER		

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L1 L2 X1			L39-0156-05 L39-0136-05 L77-0585-05	TRAP COIL (DK LEVEL) TRAP COIL CRYSTAL RESONATOR(4.5MHZ)	D	
C R	3D 3D	*	N09-1635-05 N09-2583-05	TAPTITE SCREW (2X5) TAPTITE SCREW (2.6X6)		
J1 -3 J5 J6 ,7 J8 -10 J11 -19			R92-0338-05 R92-0350-05 R92-0338-05 R92-0350-05 R92-0338-05	CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM		
J20 -24 J25 ,26 J27 -32 J33 -35 J36 -38			R92-0350-05 R92-0338-05 R92-0350-05 R92-0338-05 R92-0350-05	JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE)		
J39 J40 -46 J47 ,48 J50 J51 ,52			R92-0338-05 R92-0350-05 R92-0338-05 R92-0338-05 R92-0350-05	CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE)		
J53 J54 J55 J56 -59 J60 ,61			R92-0338-05 R92-0338-05 R92-0338-05 R92-0338-05 R92-0350-05	CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE)	D D	
J62 J63 -66 J67 ,68 J69 J70 -79			R92-0338-05 R92-0350-05 R92-0338-05 R92-0350-05 R92-0350-05	CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) JUMPER WIRE (RESISTOR TYPE)	D	
J80 J81 J82 J83 J84 -94			R92-0338-05 R92-0350-05 R92-0338-05 R92-0350-05 R92-0338-05	CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM		
J95 J97 J101 J102 J103,104			R92-0338-05 R92-0338-05 R92-0350-05 R92-0338-05 R92-0338-05	CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE) CLYND CHIP R 0 OHM CLYND CHIP R 0 OHM	D L L D	
R1 R2 R3 R4 R5			RD41DB2B272J RD41FB2B472J RD41FB2B473J RD41FB2B473J RD41FB2B102J	CYLND CHIP R 2.7K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W	D D	
R6 R7 R8 R9 -11 R12			RD41FB2B103J RD41FB2B471J RD41FB2B223J RD41FB2B104J RD14DB2H100J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 470 J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 100K J 1/8W SMALL-RD 10 J 1/2W		
R15 R16 R17 ,18 R19 ,20		*	RD41DB2B392J RD41FB2B101J RD41FB2B754J RD41FB2B222J	CYLND CHIP R 3.9K J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 750K J 1/8W CYLND CHIP R 2.2K J 1/8W		

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R21 ,22			RD41FB2B221J	CYLND CHIP R 220 J 1/8W		
R23			RD41FB2B821J	CYLND CHIP R 820 J 1/8W		
R24			RD41DB2B821J	CYLND CHIP R 820 J 1/8W		
R25 ,26			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W	D	
R27 ,28			RD41FB2B471J	CYLND CHIP R 470 J 1/8W		
R29 ,30			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R31 ,32			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R33			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W	D	
R34			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R35 ,36			RD41FB2B132J	CYLND CHIP R 1.3K J 1/8W		
R37 ,38			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R39			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R40			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R41			RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W		
R42			RD41FB2B332J	CYLND CHIP R 3.3K J 1/8W		
R43 ,44			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R45 ,46			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R47			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R48 ,49			RD41FB2B104J	CYLND CHIP R 100K J 1/8W		
R50		*	RD41FB2B751J	CYLND CHIP R 750 J 1/8W	L	
R51 ,52			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R53			RD41FB2B104J	CYLND CHIP R 100K J 1/8W		
R54			RD41FB2B471J	CYLND CHIP R 470 J 1/8W		
R55			RD41FB2B104J	CYLND CHIP R 100K J 1/8W		
R56			RD41FB2B474J	CYLND CHIP R 470K J 1/8W		
R57			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R58			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R59 ,62			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R63 ,64			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R65			RD41FB2B513J	CYLND CHIP R 51K J 1/8W		
R66			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R67			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R68			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R69			RD41FB2B102J	CYLND CHIP R 1.0K J 1/8W		
R70			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R71			RD41FB2B331J	CYLND CHIP R 330 J 1/8W		
R72			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R75 ,76			RD41DB2B472J	CYLND CHIP R 4.7K J 1/8W		
R77			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R78			RD41FB2B473J	CYLND CHIP R 47K J 1/8W	L	
R79			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R81 ,82			RD41FB2B473J	CYLND CHIP R 47K J 1/8W	D	
R83			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R84			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R85 ,87			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R88			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R89			RD41FB2B103J	CYLND CHIP R 10K J 1/8W		
R91			RD41FB2B102J	CYLND CHIP R 1.0K J 1/8W		
R92 ,93			RD41DB2B103J	CYLND CHIP R 10K J 1/8W		
R94			RD41FB2B824J	CYLND CHIP R 820K J 1/8W		
R95			RD41FB2B334J	CYLND CHIP R 330K J 1/8W		
R96			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R97			RD41DB2B473J	CYLND CHIP R 47K J 1/8W		
R98			RD41FB2B102J	CYLND CHIP R 1.0K J 1/8W		
R99			RD41FB2B273J	CYLND CHIP R 27K J 1/8W		

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R100 R104 R105,106 R107-110 R111			RD41FB2B473J RD41FB2B104J RD41DB2B103J RD41FB2B103J RD41FB2B334J	CYLND CHIP R 47K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 330K J 1/8W	D D	
R113 R115 R116 R117 R118			RD41FB2B473J RD41FB2B334J RD41FB2B473J RD41FB2B472J RD41FB2B473J	CYLND CHIP R 47K J 1/8W CYLND CHIP R 330K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 47K J 1/8W	L	
R121,122 R123,124 R125 R126 R127		*	RD41FB2B223J RD41FB2B472J RD41FB2B101J RD41FB2B103J RD41FB2B473J	CYLND CHIP R 22K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 47K J 1/8W		
R128 R129 R136 R137 R138,139			RD41FB2B433J RD41FB2B472J RD41FB2B472J RD41FB2B101J RD41FB2B331J	CYLND CHIP R 43K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 330 J 1/8W		
R140,141 R142 R143 R144 R145			RD41FB2B103J RD41FB2B822J RD41FB2B273J RD41FB2B103J RD41FB2B100J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 8.2K J 1/8W CYLND CHIP R 27K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 10 J 1/8W		
R146 R147 R148 R149 R150			RD41FB2B103J RD41FB2B102J RD41FB2B103J RD41FB2B222J RD41FB2B220J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 22 J 1/8W	D D	
R152 R153 R161-163 R164 VR1	3D	*	RD41FB2B473J RD41FB2B431J RD41FB2B472J RD41DB2B222J R24-3013-05	CYLND CHIP R 47K J 1/8W CYLND CHIP R 430 J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 2.2K J 1/8W POTENTIOMETER (VOLUME)	D D	
VR2 ,3 VR4			R12-5058-05 R12-0104-05	TRIMMING P0T. (LEVEL) TRIMMING P0T. (DK LEVEL)	D	
S1	3D		S31-2100-05	SLIDE SWITCH		
D1 -3 D4 D4 D5 D6			ERA15-01Y1 DLS1585 RLS-73 RD9.1JS(B3) ERA15-01Y1	DIODE DIODE DIODE ZENER DIODE DIODE		
D7 D8 D8 D9 D10			DA204K DLS1585 RLS-73 DAN202K RD8.2JS(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D11 D12 D13 D13 D14			RD5.6JS(B2) DAN202K DLS1585 RLS-73 DAN202K	ZENER DIODE DIODE DIODE DIODE DIODE		

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D15			RLZJ4.7	DIODE		
D16			ERA15-01Y1	DIODE		
D17			DSM1A1	DIODE		
D17			1SR139-100	DIODE		
D18			DLS1585	DIODE		
D18			RLS-73	DIODE		
D19			DAN202K	DIODE		
D20			DAP202K	DIODE		
D21			DA204K	DIODE		
D22 -25			DLS1585	DIODE		
D22 -25			RLS-73	DIODE		
D26			1SS101	DIODE		
D27			DAN202K	DIODE		
D28			DLS1585	DIODE		
D28			RLS-73	DIODE		
D30 -34			DLS1585	DIODE		
D30 -34			RLS-73	DIODE		
D35			DA204K	DIODE		
D36			RLS-73	DIODE		
D36 -45			DLS1585	DIODE		
D37			RLS-73	DIODE	D	
D38			RLS-73	DIODE		
D39 -41			RLS-73	DIODE	D	
D42 -45			RLS-73	DIODE		
D51 -53			DAN202K	DIODE		
IC1		*	UPD1719G-551-11	IC(FREQ SYNTHESIZER PLL,CONT)		
IC2			KK000	IC(P-CON)		
IC3			KKM00	IC(DIN AMP)		
IC4		*	UPD4001BG-T1	IC(NOR X4)		
IC5		*	UPD4081BG-T1	IC(AND X4)	D	
IC6		*	UPD4081BG-T1	IC(AND X4)		
IC7		*	CXA1102M	IC(DOLBY B)		
IC8			KK000	IC(SDK)	D	
Q1			2SB1015	TRANSISTOR		
Q2			2SC2412K	TRANSISTOR		
Q3			DTC124EK	DIGITAL TRANSISTOR	D	
Q4			DTC124EK	DIGITAL TRANSISTOR		
Q5			2SA1037K	TRANSISTOR		
Q6			2SD1055F	TRANSISTOR		
Q7			2SB1015	TRANSISTOR		
Q8			2SC2412K	TRANSISTOR		
Q9 ,10			2SD1757K	TRANSISTOR	D	
Q11 -14			2SD1757K	TRANSISTOR		
Q15 ,16			DTA124EK	DIGITAL TRANSISTOR		
Q17 -19			DTC124EK	DIGITAL TRANSISTOR		
Q20			DTA124EK	DIGITAL TRANSISTOR		
Q21			DTC124EK	DIGITAL TRANSISTOR		
Q22 ,23			2SA1037K	TRANSISTOR		
Q24			DTC124EK	DIGITAL TRANSISTOR	D	
Q25			2SB822F	TRANSISTOR		
Q26			DTC124EK	DIGITAL TRANSISTOR		
Q27			2SB822F	TRANSISTOR		
Q28			2SC2412K	TRANSISTOR		
Q29			DTA144EK	DIGITAL TRANSISTOR		
Q30			DTC143TK	DIGITAL TRANSISTOR		

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Q31 Q32 Q33 Q34 Q35 ,36			DTA144EK 2SC2412K DTC144WK DTC124EK DTC144EK	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	L	
Q37 Q38 Q42 Q43 Q44			DTC144WK 2SC2412K DTC124EK DTA124EK 2SA1037K	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q45 Q46 Q47 ,48			DTA124EK DTC124EK 2SB822F	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	D	
273	3D	*	W02-0766-15	TUNER ASSY		
<b>SWITCH UNIT (X25-3362-70: E, 2-71 E1, T, EF)</b>						
CFL D8 FL1 PL1 -4	2D 2D 2C	* * *	B30-1238-05 B30-1130-05 B38-0110-15 B30-1232-05	FLUORESCENT TUBE ASSY LED(SLH-38VC3) LIQUID CRYSTAL LAMP		
C	3D		N09-1635-05	TAPTITE SCREW (2X5)		
J1 J2 ,3 J4			R92-0338-05 R92-0338-05 R92-0338-05	CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM	L D	
S1 -5 D1 -4 D1 -4 D5 D5 D6 ,7 D6 ,7	2C		S40-1117-05  DLS1585 RLS-73 DLS1585 RLS-73 DLS1585 RLS-73	PUSH SWITCH  DIODE DIODE DIODE DIODE DIODE DIODE	L L	
<b>FRONT-END UNIT (X86-1092-70: E, T, 2-71: EF)</b>						
C1 C2 -7 C8 ,9 C10 C11			CE04DW1A101M CK41DF1E223Z CK73FB1H223K CC73FSL1H271J CK73FB1H223K	ELECTR0 100UF 10WV CYLND CHIP C 0.022UF Z CHIP C 0.022UF K CHIP C 270PF J CHIP C 0.022UF K		
C12 C13 C14 C15 C16			CC73FSL1H271J CE04DW1A101M CE04DW1HR47M CE04DW1C100M CE04DW1E4R7M	CHIP C 270PF J ELECTR0 100UF 10WV ELECTR0 0.47UF 50WV ELECTR0 10UF 16WV ELECTR0 4.7UF 25WV		
C17 C18 C19			CE04DW1A101M CE04DW1E4R7M CE04DW1A220M	ELECTR0 100UF 10WV ELECTR0 4.7UF 25WV ELECTR0 22UF 10WV		
CF1 ,2 T1			L72-0524-05 L30-0472-05	CERAMIC FILTER FM IFT (DISCRIMINATOR)		
J1 -6 J10 -16 R3 R6 R7			R92-0338-05 R92-0670-05 RD41DB2B100J RD41DB2B100J RD41DB2B561J	CLYND CHIP R 0 0HM CHIP R 0 0HM CYLND CHIP R 10 J 1/8W CYLND CHIP R 10 J 1/8W CYLND CHIP R 560 J 1/8W		

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D: KRC-666D  
 L: KRC-666L

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R8 R9 R10 R11 R12			RD41DB2B222J RD41DB2B331J RD41DB2B560J RD41DB2B241J RK73FB2A472J	CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 330 J 1/8W CYLND CHIP R 56 J 1/8W CYLND CHIP R 240 J 1/8W CHIP R 4.7K J 1/10W		
R13 R14 R15 R16 R17			RK73FB2A222J RK73FB2A332J RK73FB2A333J RK73FB2A752J RK73FB2A113J	CHIP R 2.2K J 1/10W CHIP R 3.3K J 1/10W CHIP R 33K J 1/10W CHIP R 7.5K J 1/10W CHIP R 11K J 1/10W		
R18 R19 R20 R21 R22			RD41DB2B473J RK73FB2A822J RK73FB2A183J RK73FB2A682J RK73FB2A102J	CYLND CHIP R 47K J 1/8W CHIP R 8.2K J 1/10W CHIP R 18K J 1/10W CHIP R 6.8K J 1/10W CHIP R 1.0K J 1/10W		
R23 R24 R25 R26 R27			RD41DB2B100J RK73FB2A683J RK73FB2A100J RK73FB2A472J RK73FB2A103J	CYLND CHIP R 10 J 1/8W CHIP R 68K J 1/10W CHIP R 10 J 1/10W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W		
R28 VR1 VR2 ,3 VR4			RK73FB2A752J R12-3083-05 R12-3101-05 R12-3071-05	CHIP R 7.5K J 1/10W TRIMMING PØT. (47K)ANRC TRIMMING PØT. (22K)LEVEL TRIMMING PØT. (10K)SEPARATION		
D1 ,2 D1 ,2 IC1 IC2 Q2			DLS1585 RLS-73 KC-900 KC-825 2SC2413K	DIØDE DIØDE IC(FM IF/DETECTION) IC(NOISE CANCELLER/ MPX) TRANSISTØR		
Q3 ,4 Q5			2SC2412K 2SA1037K	TRANSISTØR TRANSISTØR		
298	2D		W02-0926-05	FM FRONT-END ASSY		
<b>PLAYBACK AMPLIFIER UNIT (X87-1230-11)</b>						
C1 ,2 C3 ,4 C5 ,6 C7 C8		*	CK73FB1H102K CE04DW0J331M CE04DW1H010M CE04DW1A101M CK73EB1H103K	CHIP C 1000PF K ELECTRØ 330UF 6.3WV ELECTRØ 1.0UF 50WV ELECTRØ 100UF 10WV CHIP C 0.010UF K		
C9 C10 C11 C12 C13			CC73FSL1H150J CE04DW1A101M CF92FV1H683J CE04DW0J470M CE04DW1C100M	CHIP C 15PF J ELECTRØ 100UF 10WV MF 0.068UF J ELECTRØ 47UF 6.3WV ELECTRØ 10UF 16WV		
C15 ,16 C21 C22 C31 C32			CK73FB1H102K CE04DW1C102M CE04DW1E4R7M C92-0001-05 C92-0007-05	CHIP C 1000PF K ELECTRØ 1000UF 16WV ELECTRØ 4.7UF 25WV CHIP TAN 0.1UF 35WV CHIP TAN 2.2UF 20WV		
C33 C34 C35 C36 C37			CK73EB1H223K CK73EB1H103K C92-0001-05 C92-0007-05 CK73EB1H223K	CHIP C 0.022UF K CHIP C 0.010UF K CHIP TAN 0.1UF 35WV CHIP TAN 2.2UF 20WV CHIP C 0.022UF K		

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J1 -5 J6 ,7 J10 J14 J21			R92-0338-05 R92-0670-05 R92-0338-05 R92-0338-05 R92-0338-05	CLYND CHIP R 0 0HM CHIP R 0 0HM CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM CLYND CHIP R 0 0HM	EE1T E2	
J31 ,32 J33 R1 ,2 R3 ,4 R5			R92-0338-05 R92-0670-05 RK73FB2A473J RK73FB2A470J RD41DB2B101J	CLYND CHIP R 0 0HM CHIP R 0 0HM CHIP R 47K J 1/10W CHIP R 47 J 1/10W CYLND CHIP R 100 J 1/8W		
R6 R7 R8 R9 R10			RD41DB2B223J RK73FB2A103J RD41DB2B101J RK73FB2A164J RK73FB2A222J	CYLND CHIP R 22K J 1/8W CHIP R 10K J 1/10W CYLND CHIP R 100 J 1/8W CHIP R 160K J 1/10W CHIP R 2.2K J 1/10W		
R11 R12 R13 R14 ,15 R16			RD41DB2B103J RD41DB2B561J RD41DB2B102J RK73FB2A473J RK73FB2A272J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 560 J 1/8W CYLND CHIP R 1.0K J 1/8W CHIP R 47K J 1/10W CHIP R 2.7K J 1/10W		
R17 R18 R19 R21 R22			RD41DB2B102J RD41DB2B473J RK73FB2A473J RD41DB2B472J RD41DB2B222J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 47K J 1/8W CHIP R 47K J 1/10W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 2.2K J 1/8W		
R23 -25 R31 R32 ,33 R34 R35			RD41DB2B103J RK73FB2A682J RK73FB2A152J RK73FB2A102J RK73FB2A152J	CYLND CHIP R 10K J 1/8W CHIP R 6.8K J 1/10W CHIP R 1.5K J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.5K J 1/10W		
R36 R37 R38 R39 R40			RK73FB2A103J RK73FB2A682J RK73FB2A123J RK73FB2A103J RD41DB2B471J	CHIP R 10K J 1/10W CHIP R 6.8K J 1/10W CHIP R 12K J 1/10W CHIP R 10K J 1/10W CYLND CHIP R 470 J 1/8W		
VR1 ,2			R12-3101-05	TRIMMING POT. (22K)PLAY. B/LEVEL		
D1 D1 D2 D22 D22			DLS1585 RLS-73 ERA15-01Y1 DLS1585 RLS-73	DIODE		
D31 ,32 IC1 IC2 Q1 Q2			DAN202K KKF00 AN6263N DTC144EK 2SC2412K(S)	DIODE IC(TAPE EQ) IC(DPSS BLANK DETECT) DIGITAL TRANSISTOR TRANSISTOR		
Q3 Q4 Q21 Q22 Q23 ,24			2SA142B 2SC2412K(S) 2SA142B 2SC2412K(S) DTC144EK	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q31 -34 Q35 ,36 Q37			DTC144EK 2SC2412K(S) DTC144EK	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		

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Q38 .39			2SC2412K(S)	TRANSISTOR		
<b>MECHANISM ASS'Y (D40-0816-05)</b>						
1	1A	*	A11-0268-08	SUB CHASSIS ASSY		
2	1A	*	A11-0269-08	SUB CHASSIS ASSY		
7	3B	*	D01-0099-08	FLYWHEEL ASSY (F)		
8	3B	*	D01-0100-08	FLYWHEEL ASSY (R)		
9	3B	*	D03-0267-08	REEL DISK ASSY		
10	3A	*	D03-0268-08	REEL DISK		
11	3A	*	D10-2117-08	SLIDER ASSY (A)		
12	2A	*	D10-2118-08	SLIDER ASSY (B)		
13	3A	*	D10-2119-08	LEVER ASSY (FR)		
14	2B	*	D10-2120-08	LEVER ASSY (HEAD PLATE)		
15	2A	*	D10-2219-08	LEVER ASSY (EJECT)		
16	1B	*	D10-2122-08	LEVER ASSY (INV)		
20	2B	*	D10-2123-08	LEVER (FR CAM)		
21	2B	*	D10-2124-08	LEVER (FR CAM)		
22	1A	*	D10-2125-08	LEVER (FR CAM)		
23	2B	*	D10-2126-08	ARM		
24	2B	*	D10-2127-08	ARM		
25	1B	*	D10-2128-08	ARM (FR RELEASE)		
26	1B	*	D10-2130-08	LEVER (INV)		
27	2A	*	D10-2131-08	ARM (ACTION)		
28	3A	*	D10-2132-08	LEVER (SENSOR)		
29	2A	*	D10-2133-08	LEVER (LOCK PLATE)		
33	1A	*	D10-2134-08	LEVER		
34	1B	*	D10-2135-08	LEVER		
35	3A	*	D10-2136-08	ARM		
36	3A	*	D10-2137-08	ARM		
37	3A	*	D10-2138-08	LEVER (SENSOR)		
38	2A	*	D10-2139-08	LEVER (SENSOR)		
39	2B	*	D10-2140-08	LEVER (SINE PLATE)		
40	1B	*	D10-2141-08	LEVER (FR)		
41	1B	*	D10-2142-08	LEVER (FR)		
47	2A	*	D10-2145-08	ARM		
48	2A	*	D10-2146-08	LEVER ASSY		
49	2A	*	D10-2147-08	LEVER		
50	2A	*	D13-0685-08	GEAR ASSY (REEL DISK)		
51	3A	*	D13-0686-08	GEAR ASSY (FR GEAR)		
52	2A	*	D13-0687-08	GEAR ASSY (TAKE UP)		
53	2A	*	D13-0688-08	GEAR ASSY (SWITCHING)		
54	3A	*	D13-0689-08	GEAR (TAKE UP)		
55	2A	*	D13-0690-08	GEAR (TAKE UP)		
56	2A	*	D13-0691-08	GEAR (IDLE)		
57	2A	*	D13-0692-08	GEAR (IDLE)		
58	2B	*	D13-0693-08	GEAR (IDLE)		
59	3A	*	D13-0694-08	GEAR (SWITCHING)		
60	2A	*	D13-0695-08	GEAR (SETTING)		
64	1A	*	D14-0272-08	PINCH ROLLER ASSY (R)		
65	1B	*	D14-0273-08	PINCH ROLLER ASSY (F)		
66	2B	*	D14-0274-08	ROLLER (HEAD PLATE)		
67	2B	*	D15-0275-08	PULLEY (IDLE)		
68	3B	*	D16-0183-08	BELT		
74	2A	*	G01-2217-08	TENSION SPRING		

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75	1B	*	G01-2212-08	TENSION SPRING		
76	2A	*	G01-2213-08	TENSION SPRING		
77	1B	*	G01-2214-08	TENSION SPRING		
78	3A	*	G01-2215-08	TENSION SPRING		
79	2A	*	G01-2216-08	TENSION SPRING		
81	2B	*	G01-2221-08	COMPRESSION SPRING		
82	2B	*	G01-2222-08	TORSION COIL SPRING		
83	2B	*	G01-2223-08	TORSION COIL SPRING		
84	2B	*	G01-2224-08	TORSION COIL SPRING		
85	1A	*	G01-2225-08	TORSION COIL SPRING		
86	1B	*	G01-2226-08	TENSION SPRING		
87	2A	*	G01-2227-08	TENSION SPRING		
88	2A	*	G01-2228-08	TENSION SPRING		
89	2A	*	G01-2229-08	TENSION SPRING		
94	2A	*	G01-2230-08	TENSION SPRING		
95	2A	*	G01-2231-08	TORSION COIL SPRING		
96	2A	*	G01-2232-08	TORSION COIL SPRING		
97	3A	*	G02-0472-08	FLAT SPRING		
98	2A	*	G02-0473-08	FLAT SPRING		
99	1A	*	G09-0093-08	SPRING		
100	2B	*	G09-0094-08	SPRING		
101	2B	*	G09-0095-08	SPRING (PR)		
102	3A	*	G10-0129-08	FELT		
103	2A	*	G10-0130-08	FELT (FRICTION)		
104	2A	*	G11-1308-08	CUSHION		
105	3A	*	G16-0187-08	SHEET		
110	1B	*	J19-2989-18	HOLDER (ACTION PLATE)		
111	1A	*	J19-2990-08	HOLDER (CASSETTE CASE)		
112	2B	*	J19-2991-08	BRACKET		
113	3A	*	J21-5252-08	MOUNTING HARDWARE (FLYWHEEL)		
114	2B	*	J25-5896-08	PRINTED WIRING BOARD (FPC)		
115	1A	*	J25-5897-08	PRINTED WIRING BOARD		
116	3A	*	J30-0246-08	SPACER		
117	2B	*	J90-0609-08	TAPE GUIDE		
118	1A	*	J90-0610-18	CASSETTE GUIDE		
		*	N24-3012-41	E TYPE RETAINING RING		
		*	N24-3025-41	E TYPE RETAINING RING		
124	2A	*	N09-1999-08	SCREW (M2.6X3) MOTOR		
125	2B	*	N09-2000-08	SCREW (M2.6X4.5)		
126	2B	*	N09-2501-08	SCREW (M2X2)		
127	1A, 3A	*	N09-2502-08	SCREW (M2X3)		
128	1A, 2B	*	N09-2503-08	SCREW (M2X3)		
129	2B	*	N09-2505-08	SCREW		
130	2B	*	N09-2506-08	SCREW		
131	2B	*	N09-2507-08	SCREW		
132	2B	*	N09-2508-08	SCREW (M2X5)		
133	2B	*	N19-1133-08	FLAT WASHER (Ø2.1)		
137	2A, 3A	*	N19-1134-08	FLAT WASHER (Ø1.25)		
138	1B	*	N19-1135-08	FLAT WASHER (Ø2.1)		
139	1B	*	N19-1136-08	FLAT WASHER (Ø3.1)		
140	1B	*	N19-1137-08	FLAT WASHER (Ø1.7)		
141	3A	*	N19-1138-08	FLAT WASHER		
142	2B, 3B	*	N19-1144-08	FLAT WASHER (Ø2.1)		
143	1B, 2B	*	N19-1145-08	FLAT WASHER (Ø1.9)		

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S1	1A	*	S31-3009-08	SLIDE SWITCH (NON SHORT TYPE)		
S2	2B	*	S31-3007-08	SLIDE SWITCH		
S3	2B	*	S46-1112-08	LEAF SWITCH		
150	2B	*	T31-0051-08	PLAYBACK HEAD		
151	1A	*	T91-0208-08	SOLENOID COIL		
152	2B	*	T94-0207-08	SOLENOID COIL		
M1	2A	*	T42-0491-08	MOTOR ASSY		
<b>TUNER ASS'Y (W02-0766-15)</b>						
D1 -4			1S3110	DIODE		
D1 -4			1S5563	DIODE		
D1 -4			1S1555	DIODE		
D5 -7			SVC321	DIODE		
D5 -7			1SV149	DIODE		
FET1			2SK163	FET		
FET2			2SK184	FET		
TR1 -5			2SC2620	TRANSISTOR		
TR1 -5			2SC2714	TRANSISTOR		
TR1 -5			2SC2814	TRANSISTOR		
<b>FM FRONT-END (W02-0926-05)</b>						
D1			HVM145	DIODE		
D1			1SV172	DIODE		
D2 -5			HVM55	DIODE		
D2 -5			SVC212	DIODE		
D2 -5			1SV225	DIODE		
FET1			3SK126	FET		
FET1			3SK195	FET		
FET2			2SK302	FET		
FET2			2SK360	FET		
IC1			UPC1276G	IC(FM)		
TR1			2SC2712	TRANSISTOR		
TR2			2SC2714	TRANSISTOR		
TR3			2SC2714	TRANSISTOR		
TR3			2SC2715	TRANSISTOR		
<b>SCREW SET (N99-0099-05)</b>						
-			N09-0335-05	SCREW (Ø5X16)		
-			N09-0366-05	HEX NUT (M5X20)		
-			N10-1050-46	HEX NUT (M5)		
-			N14-0117-05	FLANGE NUT (M5)		

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## PACKING

Protection bag  
(H25-0336-04)  
Warranty card  
(B46-0100-10)  
Instruction manual\*  
(B50-)  
Caution card (FTZ)  
(B58-0803-13)  
Caution card (BTL)  
(B58-0854-14)

Stay  
(J54-0059-04)

Polystyrene foamed fixture  
(H10-3445-13)

KRC-666D/L

Protection bag  
(H25-0329-04)

Screw set  
(N99-0280-05)

Polystyrene foamed fixture  
(H10-3444-03)

Item carton case\*  
(H01-)

\* Refer to parts list on page 57.

KRC-666D/L



## SPECIFICATIONS

Specification subject to change without notice.

### FM Tuner Section

Frequency Range	87.5 ~ 108.0 MHz
Usable Sensitivity (DIN)	1.1 $\mu$ V/75 ohms
Stereo Sensitivity (S/N = 46 dB)	1.6 $\mu$ V/75 ohms
Frequency Response ( $\pm 4.5$ dB)	30 ~ 15,000 Hz
Signal to Noise Ratio (IEC-A)	65 dB
Selectivity (DIN)	70 dB
Stereo Separation (1 kHz)	35 dB
19 kHz Carrier Leakage	65 dB

### MW Tuner Section

MW Frequency Range	531 ~ 1,611 kHz
MW Usable Sensitivity	30 $\mu$ V

### LW Tuner Section

LW Frequency Range	153 ~ 281 kHz
LW Usable Sensitivity	60 $\mu$ V

### Cassette Deck Section

Tape Speed	4.76 cm/s
Wow and Flutter (WRMS)	0.08% (WRMS)
(DIN)	0.2% (W-PEAK)
Fast Winding Time (C-60)	100 sec
Frequency Response (120 $\mu$ s)	30 Hz ~ 16 kHz (+4 dB, -6 dB)
(70 $\mu$ s)	30 Hz ~ 18 kHz (+4 dB, -6 dB)
Stereo Separation (1 kHz)	43 dB
Signal to Noise Ratio (IEC-A)	
NR OFF	53 dB
Dolby-B	62 dB

### Audio Section

Maximum Output Power (1 kHz, 4 ohms)	25 W + 25 W
Rated Output Power (10% THD, 1 kHz, 4 ohms)	20 W + 20 W
(1% THD, 1 kHz, 4 ohms)	15 W + 15 W
Tone Action	Bass: 100 Hz $\pm 10$ dB
	Treble: 10 kHz $\pm 10$ dB
Preout Level/Impedance	1,000 mV/180 ohms

### General

Operating Voltage (GND)	14.4 V (11 ~ 16 V)
Current Consumption	4.5 A at Rated Power
Dimensions (W x H x D)	188 x 58 x 177 mm
Body Size (W x H x D)	182 x 52 x 159 mm
Weight	2.1 kg

Kenwood follows a policy of continuous advancements in development.

For this reason specifications may be changed without notice.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.

Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories.

Le système de réduction du bruit de fond est fabriqué sous licence des Dolby Laboratories.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.

Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DOLBY und Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratories.

Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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